Project list - Christian Grümme (as of: 10/2026)

Employed at TU Berlin (10/2009 - 12/2015)

Moseskonto

- **Start:** 10/2009
- **End:** 12/2015
- **Role:** Team Lead, Software Architect, Developer
- **Status:** Employed
- **Project language:** German
- **Project management:** Self-organized
- **Number of software projects:** 2
- **Project description:** Moses is a system for planning and managing courses, exam dates and tutorials and replaces individual planning in the subject areas. Based on the study plans and the wishes of those involved, plans are calculated, which can also be viewed and corrected in Moses. In addition, partial achievements (e.g. homework criteria) can be entered for events and exam registrations can be carried out. The course catalog is also located in Moses and can be viewed without logging in.
- **Job description:** In my role, I focused on gathering and analyzing customer requirements, which I ensured through regular and direct discussions with customers. My main focus was developing new functions (features) and fixing software errors (bug fixing) to continuously improve the performance and reliability of our system. A key part of my work was modernizing the system architecture. I focused on standardizing the structure and migrated to newer Java EE versions 6 and 7. In addition, I took over the migration of database entries to make data management more efficient. I also demonstrated my technical know-how by operating our systems under Linux with Glassfish server and Postgres database. In addition to these technical tasks, I dedicated myself to mentoring student employees and junior colleagues in order to promote their professional development. I also worked in direct customer support, where I contributed to solving specific problems through my professional expertise and customer orientation.
- **Area of activity:** Management, full stack, infrastructure
- **Technologies:** JAVA EE, Glassfish, PostgreSQL, JPA, JSF/Primefaces, JavaScript, Maven

- **Other technologies:** Servlets, JSP, iText, Svn, Git, Nexus, Linux, Bootstrap, CSS, Ant, Perl, Bash

UniCam

- **Start:** 04/2010
- **End:** 05/2014
- **Role:** Management, developer
- **Status:** Employed
- **Project language:** German
- **Project management:** Self-organized
- **Number of software projects:** 1
- **Project description:** We provide the TU Berlin video portal and offer various services related to its use. We support lecturers both in creating their own videos for teaching and in making the video material available on internal TU platforms and external portals. In addition, we are the first point of contact for the creation of short videos in the area of science marketing - e.g. B. for presenting research projects – and for filming events.
- **Job description:** Mainly responsible for the conception and suggestion of the unicam project, the existence of which is largely due to my initiative. Writing semi-automated editing and conversion systems for the video material and providing a video platform. Training and organizing the team.
- **Area of activity:** Management, full stack, infrastructure
- **Technologies:** FFmpeg, Perl, BASH, HTML, Flash, JavaScript

eTUB

- **Start:** 08/2010
- **End:** 03/2012
- **Role:** Development Lead, Team Lead, Software Architect, Developer
- **Status:** Employed
- **Project language:** German
- **Project Management:** Waterfall
- **Number of software projects:** 1
- **Project description:** At TU Berlin, students are required to register for individual module examinations as part of the Bologna Process before they can be taken. In this project, over 50 different registration forms are

analyzed, a uniform electronic registration process is defined and implemented and made available to students.

- **Job description:** As a hands-on team lead, I was responsible for analyzing customer requirements and implementing them in the conception and development of features. I played a central role in the architectural design to ensure an efficient and user-friendly solution. My area of responsibility also included the operation, bug fixing and maintenance of the systems, whereby I always paid attention to high quality and system stability. In my role as a team leader, I promoted the professional development of my employees through targeted mentoring. Direct customer contact was an essential part of my job in order to effectively address customer needs and continually improve our services. This extensive experience enabled me to successfully manage projects and support the team and customers alike.
- **Area of activity:** Management, full stack, focus on backend
- **Technologies:** Glassfish, IBM Informix, JAVA EE, JPA, JSF/ICEFaces, Ant
- **Other technologies:** iText, Pdfbox

Electronic project notification (ePA)

- **Start:** 03/2012
- **End:** 12/2015
- **Role:** Development Lead, Team Lead, Software Architect, Developer
- **Status:** Employed
- **Project language:** German
- **Project Management:** Waterfall
- **Number of software projects:** 2
- **Project description:** The research department of the TU Berlin requires information from the researchers in advance when applying for research projects so that accounts and other funds can be made available to them. In this case, coordination between the respective deaneries and faculties may also be necessary. This project is about defining and implementing this process in electronic form so that everyone involved can carry out this process effectively and quickly. In addition, a fast-track branch will be introduced to speed up the application process. Various third-party systems must be connected in order to save applicants from having to enter data twice and to maintain data quality.
- **Job description:** As lead developer and team leader, my focus was on analysis and design based on customer requirements to develop customized features. I had key responsibility for the system architecture to

ensure our solutions were technically advanced and user-friendly. My responsibilities included the smooth operation of the system, including efficient bug fixing and ongoing maintenance. In my leadership role, I supported my team through targeted mentoring and promoted their professional development. Regular customer contact enabled me to incorporate direct feedback into our projects and continually improve our services. These experiences in development and team management enabled me to successfully implement projects and provide optimal support to both team members and customers.

- **Area of activity:** Management, full stack, infrastructure
- **Technologies:** JAVA EE, Glassfish, MS SQL Server, JPA, JSF/Primefaces, JavaScript, Maven
- **Other technologies:** iText, Git, EPKS, Linux, Bootstrap, CSS, Bash, Puppet, JUnit, Mockito, SVG

Student Lifecycle Management (SLM)

- **Start:** 08/2012
- **End:** 12/2015
- **Role:** Subproject leader: data migration and project team
- **Status:** Employed
- **Project language:** German
- **Project Management:** Waterfall
- **Project description:** The Student Lifecycle Management (SLM) area creates the technical environment for the TU Berlin with an SAP-based software solution to map study and teaching-related processes. The various phases of the student life cycle are mapped and managed, starting with application and admission, through enrollment, re-registration, student and examination data management, right up to graduation including the final documents. A main goal of SLM is to keep the administrative work that students have to do alongside their actual studies as low as necessary. At the same time, the work processes for employees in the faculties and departments should be made more efficient, transparent and user-friendly. To this end, we are taking the following measures: Previously fragmented subsystems have been brought together in a homogeneous, comprehensive solution for electronic process mapping. By creating an innovative technical basis, efficiency and innovation reserves can be increased and digitalization can be promoted at TU Berlin. Comprehensive IT-supported processes and evaluations are implemented.

- **Job description:** Here I have included the existing processes within the framework of studies and teaching at the TU Berlin. Uniform processes defined. Third-party systems analyzed and tested for suitability at the TU Berlin. Tender prepared. Sub-project led data migration, analyzed databases and advanced data quality through definitions of data structures and consolidation.
- **Area of activity:** Management, infrastructure
- **Technologies:** EPKS, Postgres, Java EE, IBM Informix

Modultransfersystem (MTS)

- **Start:** 08/2012
- **End:** 12/2015
- **Role:** Project Lead, Software Architect, Developer
- **Status:** Employed
- **Project language:** German
- **Project management:** Self-organized
- **Number of software projects:** 1
- **Project description:** The goals of providing the MTS are to temporarily offer a central module database and to improve the data quality in the module descriptions. This is intended to ensure not only a complete module mapping, but also easier handling of the data sets. The data will serve as the basis for the future SLM system. All modules will be conveniently accessible for students and employees via Moses and will be available for download as a PDF version. The module data will be maintained decentrally at the faculties.
- **Job description:** Played a key role in the creation of the MTS project by formulating the idea and leading it to implementation, developing the concept and architecture and implementing it as a team lead and operating it.
- **Area of activity:** Management, full stack, infrastructure
- **Technologies:** JAVA EE, Glassfish, PostgreSQL, JPA, JSF/Primefaces, JavaScript, Maven
- **Other technologies:** iText, Git, Linux, Bootstrap, CSS, IBM Informix, HIS POS

Employed at Escriba AG (formerly Partake GmbH) (10/2015 - 09/2018)

Escriba

- **Start:** 10/2015
- **End:** 09/2018
- **Role:** Senior Software Engineer
- **Status:** Employed
- **Project language:** English/German
- **Project management:** SCRUM
- **Number of software projects:** 2
- **Project description:** ESCRIBA is a professional document management system that helps you create individual and highly complex documents in a legally flawless manner - easily, quickly and conveniently. Where other systems find their limits, ESCRIBA's document management is just getting started. With ESCRIBA, cross-person, cross-departmental and cross-company workflows in the context of document creation, release and management can be easily controlled and greatly simplified.
- **Job description:** Full stack developer in the international SCRUM team. Developing new features and eliminating bugs. Architecture of new modules and establishment of TTD.
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java EE, Jenkins, ODF Toolkit, Hibernate, Jboss, Wildfly, XMLUnit
- **Other technologies:** SAP JCO, JUnit, Arch42, Struts, JavaScript, CSS, Websphere, Gradle, Ant, IBM DB2, Oracle DB, MS SQL Server, SAP MaxDB, MySQL, Vaadin

Ecap

- **Start:** 11/2017
- **End:** 09/2018
- **Role:** Scrum Master
- **Status:** Employed
- **Project language:** English/German
- **Project management:** SCRUM
- **Project description:** ESCRIBA AG, a Berlin-based software and consulting company, is a provider and operator of the Enterprise Compliance and

Agility Platform (ECAP), a no/low coding platform for individual applications. ESCRIBA AG developed this platform together with corporate lawyers to give legal departments and law firms competitive advantages in digitalization. The heart of the platform is ESCRIBA, the most powerful document automation and management software currently on the market. Today, more than 120 predominantly DAX and MDAX companies in over 100 countries use ESCRIBA and use it to create over 2.5 million contracts and documents every year.

- **Job description:** Building a team as a SCRUM master, establishing the Scrum processes, mentoring the team members.
- **Area of activity:** Management

Projects as a freelancer and in employment (part-time since 11/2011, full-time since 10/2018)

SVG Generator for Seat Distribution Diagrams

- **Start:** 02/2011
- **End:** 03/2011
- **Role:** Developer
- **Status:** Private project
- **Project language:** German
- **Project management:** Self-organized
- **Number of software projects:** 1
- **Project description:** Web-based generator for seat distribution diagrams of parliaments and councils, e.g. the composition of the German Bundesrat. From the number of seats per party or state, it creates a semicircular diagram as a scalable vector graphic.
- **Job description:** Design and implementation of the generator, calculation of the seat layout, generation of the SVG graphic, and deployment as a CGI web application.
- **Area of activity:** Full stack
- **Technologies:** Perl, SVG, CGI
- **Other technologies:** HTML, Apache

Worksheets

- **Start:** 04/2013
- **End:** 06/2013
- **Role:** Senior Software Engineer

- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Commissioning of technology analysis and prototyping by a chair to modernize worksheets and student learning experiences.
- **Job description:** Requirements recording and advice. Implementing a prototype in Angular.
- **Area of activity:** Frontend
- **Technologies:** HTML, JavaScript, jQuery, Angular JS, CSS

Chrome Browser Plugin

- **Start:** 08/2013
- **End:** 09/2013
- **Role:** Software Engineer
- **Status:** Self-employed
- **Project language:** English
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Chrome browser plugin for page manipulation and status overviews of Salesforce processes.
- **Job description:** Consulting, conception, development of a Chrome plugin in HTML, JavaScript and CSS.
- **Area of activity:** Frontend
- **Technologies:** Chrome, JavaScript, jQuery

HTTP-Server

- **Start:** 09/2013
- **End:** 09/2013
- **Role:** Software Engineer
- **Status:** Self-employed
- **Project language:** English
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Concurrent HTTP server according to RFC 2616

- **Job description:** Consulting, conception, development of a high-performance HTTP server according to the RFC standard in C.
- **Area of activity:** Backend
- **Technologies:** C, POSIX threads, Linux libraries

Unilever Media

- **Start:** 09/2013
- **End:** 01/2017
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Self-organized
- **Number of software projects:** 3
- **Project description:** Platform for media data in the food industry. It provides a collaboration platform for photographers, retailers and food manufacturers to create and manage media to support the catalog creation process.
- **Job description:** Technology consulting and implementation of features and bug fixes. Planning architecture and modernizations. Support of the client's customers.
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, JAX-WS (Apache Metro), Tomcat, MySQL/MariaDB, Apache Cayenne
- **Other technologies:** Spring Security, Image-Magick, Docker

Git System

- **Start:** 11/2013
- **End:** 11/2013
- **Role:** Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Setting up a Git system to improve source code management and collaboration.
- **Job description:** Consulting, conception and implementation of a Git system. Migration of legacy data.

- **Area of activity:** Infrastructure
- **Technologies:** Gitolite, SSH

SOAP-Webservices

- **Start:** 11/2013
- **End:** 12/2015
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Connection of a media sheet form to third-party systems of project partners through a uniform interface. A SOAP interface is defined and implemented here so that customers can synchronize larger amounts of files with their systems.
- **Job description:** Consulting and conception of a uniform and powerful interface. Definition and implementation of a SOAP web service. Implementation of a client example, support of the client's customers with the connection.
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, JAX-WS (Apache Metro), Tomcat, MySQL/MariaDB
- **Other technologies:** Apache Cayenne, Spring Security

Data migration

- **Start:** 03/2014
- **End:** 04/2014
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Analysis and conversion of database data. Writing automation scripts in Bash and Perl to support database migrations.
- **Job description:** Analysis and conversion of database data. Writing automation scripts.
- **Area of activity:** Infrastructure
- **Technologies:** MySQL/MariaDB, Perl, Bash

Media migration

- **Start:** 10/2014
- **End:** 10/2014
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Analysis and conversion of post-script media. Writing automation scripts in Bash and Perl to support the conversion of the media files.
- **Job description:** Analysis and conversion of Postscript media. Writing automation scripts.
- **Area of activity:** Infrastructure
- **Technologies:** ImageMagick, Perl, Bash

Automation Deployment System (Continuous Delivery System)

- **Start:** 10/2014
- **End:** 10/2014
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Automation deployment system (Continuous Delivery System). Here, the deployment of a new version of the platform is automated, so that Docker containers are automatically created through updates to certain development branches in Git and are put into production using blue-green deployments.
- **Job description:** Consulting, conception, implementation
- **Area of activity:** Infrastructure
- **Technologies:** Ubuntu, Tomcat, Git, Perl, Bash

Media migration

- **Start:** 11/2014
- **End:** 12/2014
- **Role:** Senior Software Engineer

- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Analysis and conversion of image data including color space and profile, cropping, metadata. Writing automation scripts in Bash and Perl to support the conversion of the media files.
- **Job description:** Data migration
- **Area of activity:** Infrastructure
- **Technologies:** ImageMagick, Perl, Bash, Java, Apache Imaging

PDF Converter

- **Start:** 11/2014
- **End:** 12/2014
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Analysis and conversion of PDF data including color space and profile, cropping, metadata. Writing automation scripts in Bash and Perl to support the conversion of the media files.
- **Job description:** Data migration
- **Area of activity:** Infrastructure
- **Technologies:** ImageMagick, Perl, Bash, Java, Apache Imaging

Server migration and switch to Docker

- **Start:** 11/2014
- **End:** 04/2015
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Migration of a Java platform with MySQL database to a new Linux system and containerization on Docker.
- **Job description:** Server migration

- **Area of activity:** Infrastructure
- **Technologies:** Ubuntu, Docker, IPTables, SSL, Cron, Git, Tomcat, MySQL/MariaDB, Perl, Bash

Quality filters for image uploads

- **Start:** 11/2014
- **End:** 08/2015
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Conception and implementation of a quality filter for image uploads.
- **Job description:** Consulting, conception, implementation
- **Area of activity:** Backend
- **Technologies:** Java, Tomcat, MySQL/MariaDB, JSP, Struts, Apache Cayenne, Apache Imaging

Secure file upload for external parties

- **Start:** 12/2014
- **End:** 12/2014
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Setting up secure file upload for external parties (sftp) so that project partners are able to upload larger files to the target system.
- **Job description:** Consulting, conception, implementation
- **Area of activity:** Infrastructure
- **Technologies:** Ubuntu, SSH

Data consistency check

- **Start:** 12/2014
- **End:** 05/2015
- **Role:** Senior Software Engineer

- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Data consistency checks in databases and media files to improve data quality.
- **Job description:** Data migration
- **Area of activity:** Infrastructure
- **Technologies:** MySQL/MariaDB, Perl, Bash

Moseskonto

- **Start:** 12/2015
- **End:** 06/2015
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 2
- **Project description:** Expansion of authentication through LDAP connection to a campus management system so that a third-party system can be connected to your identity management system.
- **Job description:** Architecture, conception, implementation, customer contact
- **Area of activity:** Backend
- **Technologies:** Java, Java EE, Glassfish, JAAS, X.509

PDF Converter

- **Start:** 03/2015
- **End:** 11/2015
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Conception and implementation of a PDF converter that enables image data to be downloaded as a PDF in the correct color and size.

- **Job description:** Consulting, conception, implementation
- **Area of activity:** Backend
- **Technologies:** Tomcat, Java, Pdfbox

Electronic project notification (ePA)

- **Start:** 12/2015
- **End:** 10/2022
- **Role:** Development Lead, Team Lead, Software Architect, Developer
- **Status:** Self-employed
- **Project language:** German
- **Project Management:** Waterfall
- **Number of software projects:** 2
- **Project Description:** Maintenance of a Java Enterprise software of the management process research project display. Project description, see above.
- **Job description:** Further development, bug fixing, maintenance, support, customer contact
- **Area of activity:** Management, full stack, infrastructure
- **Technologies:** JAVA EE, Glassfish, MS SQL Server, JPA, JSF/Primefaces, JavaScript, Maven
- **Other technologies:** iText, Git, Linux, Bootstrap, CSS, Bash, Puppet, JUnit, Mockito, SVG

REST Cache showcase

- **Start:** 06/2016
- **End:** 06/2016
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** REST API for data queries with integrated cache.
- **Job description:** Architecture, conception, implementation
- **Area of activity:** Backend
- **Technologies:** Java, Spring, Spring Boot, Spring Data

CSV REST Showcase

- **Start:** 10/2016
- **End:** 10/2016
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Ondemand CSV parser with REST interface.
- **Job description:** Architecture, conception, implementation
- **Area of activity:** Backend
- **Technologies:** Java, Java Stream API, Spring, Spring Boot, Apache Jackson

Automation scripts for Gen analysis

- **Start:** 11/2017
- **End:** 03/2018
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 1
- **Project description:** Analysis of gene sequences in agriculture. Here, gene sequences from agricultural animals, e.g. cows and pigs, are analyzed and correlations are formed so that better reproductive pairings can be determined in order to avoid hereditary diseases and obtain better genetic properties.
- **Job description:** Consulting, conception, implementation
- **Area of activity:** Backend
- **Technologies:** Perl

eHealthCA

- **Start:** 10/2018
- **End:** 03/2020
- **Role:** Senior Software Engineer
- **Status:** ANÜ (Labor leasing through agency)
- **Project language:** German

- **Project management:** SCRUM
- **Number of software projects:** 3
- **Project description:** The eHealthCA supports the telematics infrastructure as a central platform for health data in Germany. This is required for testing in the approval process for software and hardware for the telematics infrastructure. The eHealthCA manages the certificate card, which is used on chip cards such as the health card.
- **Job description:** Further development, architecture, operation, bug fixing, maintenance, mentoring, agile coach, migration to Spring Boot, technical project lead for introducing Docker and Kubernetes at gematik (proof of concept for Test & Approval)
- **Area of activity:** Full stack
- **Technologies:** Java, Spring Boot, jQuery, JAX-RS, JPA, JavaScript, Electronic Certificates X.509
- **Other technologies:** MS SQL Server, Tomcat, Liquibase, Docker, Kubernetes, JUnit, Selenium, MapStruct

ESCRIBA

- **Start:** 10/2018
- **End:** 12/2019
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** English/German
- **Project management:** Order
- **Number of software projects:** 2
- **Project description:** Feature development on document management software in the SAP environment, see ESCRIBA.
- **Job description:** Feature development, architecture, bug fixing
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java EE, Jenkins, ODF Toolkit, Hibernate, JBoss, Wildfly, XMLUnit
- **Other technologies:** SAP JCO, JUnit, Arch42, Struts, JavaScript, CSS, Websphere, Gradle, Ant, IBM DB2, Oracle DB, MS SQL Server, SAP MaxDB, MySQL

Elinvar Platform

- **Start:** 04/2020

- **End:** 08/2022
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** English
- **Project management:** SCRUM
- **Number of software projects:** 3
- **Project description:** Configure and use the Wealthtech platform flexibly for your business model - as individually as your smartphone supports you. Easily combine third-party service packages. Manage all relevant asset investment processes via one platform and offer the ideal customer experience.
- **Job description:** Consulting, feature development, architecture, bug fixing
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, Spring, Spring Boot, REST, TypeScript, Apache Kafka, Kubernetes, AWS
- **Other technologies:** Docker, React JS, JavaScript, Gitlab-CI, Graph-QL, JUnit, Mockito

KIM

- **Start:** 08/2020
- **End:** 09/2021
- **Role:** Senior Software Engineer
- **Status:** ANÜ (Labor leasing through agency)
- **Project language:** German
- **Project management:** SCRUM
- **Number of software projects:** 5
- **Project description:** KIM is a uniform standard for the electronic transmission of medical documents via email. Important test results, doctor’s letters and findings can be sent and received securely and conveniently. KIM also enables quick and easy contacts between practices, clinics and experts.
- **Job description:** Feature development, architecture, operations, bug fixing, maintenance, mentoring
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, Spring Boot, Thunderbird, JavaScript, POP3, IMAP, REST, JPA

- **Other technologies:** Postgres, Docker, Electronic Certificates X.509, JUnit, Mockito

DEMIS

- **Start:** 01/2022
- **End:** 06/2023
- **Role:** Senior Software Engineer
- **Status:** ANÜ (Labor leasing through agency)
- **Project language:** German
- **Project management:** SCRUM/SaFe
- **Number of software projects:** 1
- **Project description:** DEMIS quickly and reliably transmits laboratory results in which an infection with the coronavirus has been detected to health authorities. Doctors' practices and pharmacies, among others, can use an online reporting portal to transmit positive rapid test results directly to the health authorities. This means that possible chains of infection can be identified and broken even better. Since January 2022, evidence of more than 60 pathogens that must be reported to the health authority in accordance with the Infection Protection Act can be transmitted from laboratories to health authorities using DEMIS. This means that the system has reached an important expansion stage, through which, in the future, not only reports on SARS-CoV-2 detections, but also on all reportable pathogens, such as detections of measles viruses, influenza viruses or rotaviruses, will be transmitted via DEMIS. Since September 2022, hospitals have been able to report the admission of COVID-19 patients and the occupancy of their beds via DEMIS.
- **Job description:** Feature development, architecture, operation, bug fixing, maintenance, maintenance window support, migration to Spring Boot. Responsible developer for releases and maintenance windows, analysis and resolution of database performance problems (PostgreSQL/HAPI FHIR, analysis with Splunk), further development and documentation of the PDF Generation Service, features such as a QR code in the notification receipt and the NotificationID in the response, leading the daily of team NAVY, member of the Quality Gates task force (SonarQube)
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, Spring Boot, REST, Angular, JPA, FHIR, Hapi-FHIR, Docker, Kubernetes

- **Other technologies:** JavaScript, Tomcat, Podman, PDF-Box, Postgres, Redis, Splunk, SonarQube, JUnit, Mockito, MapStruct

Camping Card

- **Start:** 02/2022
- **End:** 12/2022
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** German
- **Project management:** Order
- **Number of software projects:** 2
- **Project description:** NFC Android app for managing camping showers. This is about loading, debiting and viewing the status of the monetary amounts on the cards.
- **Job description:** Consulting, conception, development, architecture
- **Area of activity:** Full stack
- **Technologies:** Java, Android, Near Field Communication, Mifare classic

Corona Chronologies

- **Start:** 06/2022
- **End:** 06/2023
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** English
- **Project management:** Self-organized/contracted
- **Number of software projects:** 1
- **Project description:** Platform for publication visualization on the corona pandemic to support research in the social science environment.
- **Job description:** Consulting, conception, development, architecture
- **Area of activity:** Full stack
- **Technologies:** Java, Spring Boot, JavaScript, d3.js, PostgreSQL
- **Other technologies:** Bootstrap, Docker, JUnit, Mockito

CompuGroup Medical - NAIS

- **Start:** 09/2023
- **End:** 12/2023
- **Role:** Senior Software Engineer

- **Status:** Self-employed
- **Project language:** English
- **Project management:** SCRUM
- **Number of software projects:** 3
- **Project description:** Patient and Practice Software is the most widely used cloud software for general practitioners and pediatricians in Italy and is fully tailored to the real needs of healthcare professionals. Forget about the updates and backups you do manually, even when you are with your patients.
- **Job description:** Consulting, architecture, migration to Quarkus
- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, Quarkus, PostgreSQL, REST
- **Other technologies:** JavaScript, JUnit, Mockito, MapStruct

Trisor

- **Start:** 11/2023
- **End:** 03/2024
- **Role:** Senior Software Engineer
- **Status:** Self-employed
- **Project language:** English
- **Project management:** SCRUM
- **Number of software projects:** 4
- **Project description:** At Trisor, you have easy access to your valuables at any time – without the need for an appointment or registration. Using an encrypted customer card, you can enter the Trisor location 24 hours a day, seven days a week, 365 days a year.
- **Job description:** Consulting, Development
- **Area of activity:** Backend
- **Technologies:** Spring Boot, Spring Cloud, PostgreSQL
- **Other technologies:** REST, AWS, JUnit, Mockito, CircleCi

German Federal Ministry of Education/Wisercat - Mein Bildungsraum/Digitale Nachweise

- **Start:** 03/2024
- **End:** 04/2025
- **Role:** Senior Software Engineer
- **Status:** Self-employed

- **Project language:** English/German
- **Project management:** SCRUM
- **Number of software projects:** 5
- **Project description:** “My Education Space” (Mein Bildungsraum) links existing digital education offerings and administrative processes from the education sector. This networking creates a digital education space that creates secure access and transitions, removes hurdles and thus supports users on their individual learning journeys. In this way, administrative processes in education can be simplified for learners.
- **Job description:** Management, full stack, infrastructure
- **Area of activity:** Full-Stack, Fokus Backend
- **Technologies:** Spring Boot, KeyCloak, X.509, Quarkus, Kubernetes, PostgreSQL
- **Other technologies:** D-Trust Sign-me, REST, React, TypeScript, JUnit, Mockito

Gematik - PoPP / EuroVision / TI-2 Testhub

- **Start:** 04/2025
- **End:** 10/2026
- **Role:** Senior Software Engineer
- **Status:** ANÜ (Labor leasing through agency)
- **Project language:** German
- **Project management:** SCRUM
- **Number of software projects:** 3
- **Project description:** Development in the context of the German telematics infrastructure and European eHealth applications. The Proof of Patient Presence (PoPP) project supports proof of insured persons’ presence in a medical context. The National Contact Point for eHealth (NCPeH) project provides interfaces for the cross-border exchange of health data within the European MyHealth@EU context. In addition, I worked on the TI-2 Testhub, where PoPP was integrated.
- **Job description:** Java development for Proof of Patient Presence (PoPP), the National Contact Point for eHealth (NCPeH), and the TI-2 Testhub. Integration of PoPP into the TI-2 Testhub, work on the PoPP reference implementation, and development and extension of the test suite for EuroVision. Further responsibilities included interface management, feature development, testing, mentoring team members, and working with cryptographic tokens and electronic certificates.

- **Area of activity:** Full stack, focus on backend
- **Technologies:** Java, Spring Boot, REST, WebSockets, Corretto, JPA, Electronic Certificates X.509
- **Other technologies:** MyHealth@EU, e-prescription, Tiger, cryptographic tokens, TI 2.0, eGK, connector

DVZ M-V/DEJ Technology - ISY.OMNIS School Administration

- **Start:** 08/2026
- **End:** current
- **Role:** Team Lead
- **Status:** Self-employed (part-time, 10 hours/week)
- **Project language:** German, English
- **Project management:** SCRUM
- **Number of software projects:** 1
- **Project description:** ISY.OMNIS is the administration software for schools and the Ministry of Education of Mecklenburg-Vorpommern, developed and operated by DVZ Datenverarbeitungszentrum Mecklenburg-Vorpommern on behalf of the ministry. The solution, originally taken over from the State of Brandenburg, is being adapted to the legal and functional requirements of Mecklenburg-Vorpommern. DEJ Technology supports DVZ with its own development team.
- **Job description:** Leading a distributed development sub-team of three developers in Nairobi working on user and role management (roles and permissions, role assignments, school-specific roles). Setting up a secure development environment that keeps the source code in Germany (Windows 11 VMs, a dedicated GitLab with GitLab CI and SonarQube, an offline build bundle). Requirements clarification and refinement with DVZ, alignment in dailies and sprint reviews with DVZ and the ministry, code reviews, and onboarding and mentoring of the team.
- **Area of activity:** Team lead, full stack, infrastructure
- **Technologies:** Java 17, Spring Boot, Vaadin, PostgreSQL, Liquibase, Keycloak, Maven
- **Other technologies:** Docker, GitLab, GitLab CI, SonarQube, Caddy, Node.js, TypeScript, Vite, Domain-Driven Design, onion architecture, modular monolith