

## Main Area(s) of Expertise

### Software Development

My experiences in software development extend from the assessment of demand for the acquisition of the catalog of requirements, the conceptual design and implementation of software systems, especially in the Java domain, to the delivery and launch of solutions for the customer. Furthermore, I have a deep understanding of software development processes as well as practical experience in the realization of individual steps of these processes and the counsel of customers.

### Warehouse Management Systems

The design and development of enterprise resource planning and similar systems has given me a broader understanding of intra-logistic processes. Among these is not just the implementation of the business logic of procedure steps and process runs, i.e. in incoming and out-going goods, inspection of quality, and inventory, but interaction and communication with users of stationary and mobile devices.

### IT-Security

As a former IT-Security Agent in sales and in technical support for security solutions I have a certain awareness for safety from the customer's point of view, which is also useful in the conception and the use of applications.

### Creating Impact

The willingness and the dedication to accomplish more enable me to work outcome-oriented, time-sensitive, and in the customer's interest. This not only includes being qualified, communicative, and self-motivated, but succeeding in new challenges with the necessary eagerness to learn.

### Corporate Management

Apart from the realization of creative solutions and the delivery of products in software development, the exchange of know-how and knowledge through training courses and mentoring; the identification of new opportunities to add value and the promotion of innovations through technical as well as organizational measures are all about corporate management. This allows me through active participation to collaborate in the analysis, planning, verbalization, and realization of strategies with company-wide effects.

Frankfurt, May 1<sup>st</sup>. 2023

## Projects

**07.2022 – today**      **Customer:**      internal & external customers of **WORA Tech & Consulting**  
**Industry:**      IT-Services, Consulting, Finances, Supply Chain  
**Project title:**      internal Projects & Services

### Project description:

For our own internal and external customers, we are currently implementing several proof of concepts (POCs) and developing multiple products and services. Some of which will be shortly and directly obtainable over our upcoming online stores and platform, which are currently also under development.

### Description of my tasks within this project:

In my role as **Chief Technical Officer**, I am currently overseeing the development of several internal IT-projects as a base of the first set of products to be purchased over our online shops. I am also responsible for the technological direction of our company and for the management of our technical partners.

As **Founder** and **Chief Executing Officer**, I am responsible for the strategical business development and the proper execution of the company goals and vision.

### Programming Languages, tools, etc. used:

Java, Maven, Spring, Vaadin, Flutter, Apache POI, Selenium, Playwright, Postman, PowerShell, Bash Scripting, Docker, Jenkins, Kubernetes, Terraform Cloud, AWS, OpenShift, Rancher, JFrog Platform (Artifactory), Sonatype Nexus OSS, Gitlab, Jira, Confluence, Trello, Bamboo, Bitbucket, HP ALM, Redmine, Trac, MediaWiki, Sharepoint, Office365, Microsoft Teams, Zoom, Slack, Figma, Canva, Draw.io, SCRUM, Kanban, Klaviyo, MailChimp, Easybell, 3CX Phone System Management

**10.2022 – 11.2022**      **Customer:**      A German federal office  
**Industry:**      IT Department  
**Project title:**      Cloud Native Software Development

### Project description:

For the introduction of innovative cloud technologies in the software development and deployment life cycle for product teams within a German federal office, a project was created to build several blueprints using and introducing best practices of software development in a cloud native fashion. A second project was to introduce a new private cloud initiative and platforms to provide corresponding resources for said product teams.

### Description of my tasks within this project:

I was brought in as **an external IT-Advisor** to help review the cloud initiative on the organizational and technical level and actively support the adoption as well as the expansion of the existing cloud infrastructure. I was also able to support the Cloud Native Development approach of the first project.

### Programming Languages, tools, etc. used:

Java, Spring, Kubernetes, Docker, ArgoCD, Tekton, Prometheus, Graphana, Kibana, GoAlert, Tilt, PowerShell, Bash Scripting, JIRA, Confluence, Ubuntu, Windows 10, SCRUM

## Projects

**10.2021 – 02.2022**    **Customer:**      Dataport Aör  
**Industry:**            IT Service Provider  
**Project title:**        New Software Procurement (CRM, HRM, ERP, Web Shop)

### Project description:

As a public-law institution is Dataport Aör a Full-Service Provider for IT and administration. The institution provides and manages services not only for all public offices of the *Free Hanseatic City of Hamburg*, but also for other states such as the *Free Hanseatic City of Bremen*, *Schleswig-Holstein*, *Mecklenburg-West Pomerania*, *Lower Saxony* and *Saxony-Anhalt*.

In order to optimize multiple internal processes, and hence the daily work of roughly 4,400 employees, over 9 main cities and remotely all over the German federation, a call for tenders was to be prepared and conducted for selecting a super-set of new innovative and cutting-edge technologies to replace the existing one.

### Description of my tasks within this project:

As **member of the core organization committee** was I responsible for the preparation and the execution of this call for tenders.

**10.2021 – 02.2022**    **Customer:**      Dataport Aör, Bechtle AG, German federal and local offices  
**Industry:**            IT Service Provider  
**Project title:**        Cloud Portal (OZG, EfA)

### Project description:

As a public-law institution is Dataport Aör a Full-Service Provider for IT and administration. The institution provides and manages services not only for all public offices of the *Free Hanseatic City of Hamburg*, but also for other states such as the *Free Hanseatic City of Bremen*, *Schleswig-Holstein*, *Mecklenburg-West Pomerania*, *Lower Saxony* and *Saxony-Anhalt*.

The Cloud Portal Initiative project was one the main responses chosen by Dataport to provide a solution in order to implement the Online Access Act (OZG), which aims to digitalize federal and local administrative services and making them available to the public. The already invested resources and overall strategy were to be probed, reviewed and validated on the conformity to the principle of "one for all" for further federal distribution.

### Description of my tasks within this project:

As **Cloud Portal Manager** was I not only responsible to review the aforementioned internal cloud strategy, but also provide enhancements due to the existing and newly formulated requirements on a federal level.

## Projects

**03/2020 - 06/2021**    **Customer:**    Devoteam customers  
**Industry:**    IT Service Provider  
**Project title:**    OpenShift Developer Workshops

### Project description:

As a main partner of Red Hat, Devoteam offers Developer-Workshops on OpenShift. The team of developers educates you in the optimization of existing applications, in the monitoring and management of CI/CD-Pipelines as well as in the operation of Service Mesh of cloud-native applications. Additionally, the team helps you to get a better understanding of integrated OpenShift technologies and assists you in increasing your productivity and customer satisfaction.

### Description of my tasks within this project:

As the main **Trainer**, I was responsible for the preparation and the execution of these workshops.

### Programming Languages, tools, etc. used:

Java, Java EE, SQL, PostgreSQL, Red Hat Application Migration Framework, Red Hat OpenShift 4 (Pipelines, Service Mesh/Istio, Kiali Visualization, Serverless), Red Hat Integration (Kafka AMQ Streams), Red Hat Runtimes (Quarkus, Spring Boot, Data Grid), Red Hat CodeReady Workspaces, Eclipse IDE, Visual Code, Open-source monitoring and tracing tools (Prometheus, Grafana, Jaeger)

**01/2021 - 02/2021**    **Customer:**    Volkswagen Group IT Services  
**Industry:**    IT Service Provider  
**Project title:**    Active Maintenance and Further Development of TDM-Tools

### Project description:

The TDM-Tool is a test data management system for the appropriation of vehicle configuration data and test data as part of the quality assurance of Volkswagen Services. The tool is used to support actual tests of fault and configuration analysis. To this end, configuration processes are mounted with focus on customer preferences for selected vehicles, test data is generated and provided for the respective department.

### Description of my tasks within this project:

As a **Full-Stack Developer** I was responsible for the extension of existing service modules and the management of graphic user interfaces.

### Programming Languages, tools, etc. used:

Java, JEE, SQL, data banks (H2, PostgreSQL), Swagger, Bitbucket, Jira, Confluence, Bamboo, JFrog Artifactory, Spring Boot, SonarQube, Apache Maven, Gradle, Eclipse IDE, Visual Code, Git, Angular, Postman, Consul, Docker, Kubernetes, AWS EKS, SCRUM

## Projects

**07/2020 - 10/2020**    **Customer:**    Volkswagen Group IT Services  
**Industry:**    IT Service Provider  
**Project title:** Active Maintenance and Further Development of the BQM-Tool

### Project description:

The BQM-Tool Project is responsible for the production of a web-based application for quality assurance and validation of Volkswagen Mobile Online Service Backend components. The tool is intended to assist in the frontend and backend integration of fault analysis. For that matter, the condition and topicality of relevant VW Services is assessed so that, ultimately, a release certificate for the scheduled delivery can be declared.

### Description of my tasks within this project:

My main task as a **Backend Developer** in this project was the active maintenance of existing service modules. Additionally, I was responsible for the conception and the development of new backend modules.

### Programming Languages, tools, etc. used:

Java, JEE, SQL, data banks (PostgreSQL, InfluxDB), Flyway, Swagger, Bitbucket, Jira, Confluence, Bamboo, JFrog Artifactory, Spring Boot, SonarQube, Apache Maven, Apache Tomcat, Eclipse IDE, Visual Code, Git, Angular, Postman, Grafana, Consul, Docker, Kubernetes, AWS EKS, FluxCD, Helm, Google JIB, PlantUML, Requirements Engineering, SCRUM

## Projects

**03/2018 - 12/2019**    **Customer:**    Compex Systemhaus GmbH & CO. KG  
**Industry:**    IT Service Provider  
**Project title:**    Signal DSL for both *OSBP and OS.bee Software Factory Platforms*

### Project description:

The OS.bee Project is a proprietary software platform of Compex Systemhaus GmbH for generating web applications based on the Eclipse Open Standard Business Platform Project, which is also conducted by Compex Systemhaus GmbH. The platform follows a model-based No-Code Low-Code approach on software development.

The Signal DSL module language was to provide real time and scheduled automation functionalities as well as file system monitoring functions. These new functionalities were to be integrated in both platforms.

### Description of my tasks within this project:

As **Product Owner** was my main focus not only to translate client's requirements into user stories, but also directly provide reports to the client on a regular basis. I was also responsible to conduct multiple client workshops.

As **Tech Lead** was I not only responsible for the conception, the design and the technical realization of this new module language, but also for its active implementation as well as the creation of technical and user documentation. Moreover, I did take over the onboarding and training of several new recruits.

### Programming Languages, tools, etc. used:

Requirements Engineering, UML, JEE, Git, Eclipse IDE, Osgi Equinox, EMF, Xtext Xtend, Xbase, Vaadin, Drools, Apache Shiro, EclipseLink, Hibernate, OSGi Gemini, Smooks, Quartz, Eclipse MicroProfile, Jetty, Maven & Eclipse Tycho, Jenkins, Gerrit, SonarQube, jFairy, SWT Widgets (Opal), Datenbanken (Oracle, MySQL, MSSQL, H2, Derby), Spring Data REST, Spring Web MVC

## Projects

07/2017 - 12/2019

**Customer:** Compex Systemhaus GmbH & CO. KG  
**Industry:** IT Service Provider  
**Project title:** Active maintenance and further development of both *OSBP* and *OS.bee Software Factory Platforms*

### Project description:

The OS.bee Project is a proprietary software platform of Compex Systemhaus GmbH for generating web applications based on the Eclipse Open Standard Business Platform Project, which is also conducted by Compex Systemhaus GmbH. The platform follows a model-based No-Code Low-Code approach on software development.

### Description of my tasks within this project:

As a *Core and Co-Lead Developer*, I was in charge of the active development and maintenance of both OSBP and OS.bee Software Factory Platforms. I was also responsible for the active extension and maintenance of a CSV-Reader-Tool for the generation of complex business web applications. At last, was the creation of user and technical documentations, training course materials as well as maintaining forum and blog posts part of my regular tasks.

### Programming Languages, tools, etc. used:

JEE, Git, Eclipse IDE, Osgi Equinox, EMF, Xtext Xtend, Xbase, Vaadin, Sirius, jBPM, Drools, Mondrian, Apache Shiro, BIRT, EclipseLink, Hibernate, OSGi Gemini, Apache ActiveMQ, Smooks, Quartz, Eclipse MicroProfile, UOMo, TapiJI, mxGraph, Jetty, Maven & Eclipse Tycho, Jenkins, Gerrit, SonarQube, jFairy, SWT Widgets (Opal), Datenbanken (Oracle, MySQL, MSSQL, H2, Derby), Spring Data REST, Spring Web MVC

02/2017 - 05/2017

**Customer:** virtual7 GmbH, German Federal Employment Agency  
**Industry:** IT Service Provider  
**Project title:** Training Concepts

### Project description:

For the purpose of the staff's further education and an advancement of collective work on IT-projects with partner companies, the Federal Employment Office commissioned the creation of training concepts for several technologies.

### Description of my tasks within this project:

During my work for the company virtual7 GmbH in Karlsruhe, which delivers individual and project specific software solutions for the automobile industry and realizes government projects, I constructed schooling material for Angular 2. Furthermore, my assignments involved the conception, the design, and the implementation of central administrative applications, which officiated as an e-learning platform for internal usage.

### Programming Languages, tools, etc. used:

Java, Java EE, Oracle Database 12c, JavaScript, TypeScript, Angular 2, Node.js Docker, Eclipse IDE, Git, Requirements Engineering

05/2016 - 02/2017

**Customer:** Robert Schmitz Spedition GmbH & Co. KG  
**Industry:** Transport and Logistics  
**Project title:** Development of a new Warehouse Management System

**Project description:**

Since its founding in 1929 Robert Schmitz Spedition GmbH & Co. KG has been a family-run logistic company, which specialized in the delivery of heavy goods. The profile of the supply of services did not only include the storage of cellulose and rolled steel in heated warehouses, but also their local delivery by semitrailer tractor and their international delivery by water transport in containers as well. For the sake of meeting the standards of an ever-expanding demand for services and the maintenance of stored goods, as well as the transaction of customs clearances and supply contracts for the customer, a new warehouse management system had to be developed.

**Description of my tasks within this project:**

As **Product Owner** I firstly contributed in formulating parts of the catalog of requirements, specifying the customer's needs after myself taking part and conducting some of workshops with the client. Moreover was my main focus not only to translate the client's requirements into user stories, distribute said stories to my team and keep an eye on their development. I would also directly provide reports to the client and our team on a regular basis.

As **Tech Lead** I took over the conception and design of new business processes. I additionally contributed to the design of user interfaces in the form of mock-ups and further promoted the technical realization of the client's requirements. Subsequently, I accounted for the main development of application modules such as inventory and the receipt of goods for stationary as well as mobile devices. The creation of the technical documentation was also part of my regular tasks.

**Programming Languages, tools, etc. used:**

Java, JEE, Oracle Database 12c, JSF, JSP, HTML, CSS, JavaScript, CaptainCasa Enterprise Client, CVS, XML, Eclipse, DBVisualizer, Actricity, JasperStudio, iReport, UML, PL-Store Software Solutions, Extensible Markup Language (XML), Apache Ant, Apache Tomcat Server, Hibernate, Requirements Engineering



02/2016 - 02/2017

**Customer:** ABS Safety GmbH  
**Industry:** Manufacturing and Trade  
**Project title:** Maintenance and Upgrade of an existing Warehouse Management System

**Project description:**

The family-run concern ABS Safety GmbH from Kevelaer offers modern safety systems for roofers, craftspeople, and mechanics and supplies among others the construction industry. For the matter of modernizing the production and the logistic operating process of proLogistik GmbH & Co. KG the existing warehouse management system had to be updated.

**Description of my tasks within this project:**

In this project I managed the draft of new printing documents and reports. Furthermore, I was responsible for the conception, design and integration of a new module for the management of dangerous goods pertaining to the *Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2015)*. Moreover, I managed the consolidation of this newly built module with the shipping system of the company *Heidler Strichcode GmbH*. The correction of defects of the overall application, its documentation as well as the generation of technical and user documentations also counted among my tasks.

**Programming Languages, tools, etc. used:**

Java, JEE, Oracle Database 12c, Hibernate, JSF, JSP, HTML, CSS, JavaScript, CaptainCasa Enterprise Client, CVS, XML, Eclipse, DBVisualizer, Actricity, JasperStudio, iReport, UML, PL-Store Software Solutions, Extensible Markup Language (XML), Apache Ant, Apache Tomcat Server

02/2016 - 05/2016

**Customer:** Hanseatischer Drahthandel GmbH  
**Industry:** Manufacturing and Trade  
**Project title:** Maintenance and Process Realization of a new Warehouse Management System

**Project description:**

The company Hanseatischer Drahthandel GmbH is known to be a leading specialist wholesaler of wire and hardware goods in hardware stores. The existent warehouse management system had to be upgraded in order to modernize and optimize the logistic operating process.

**Description of my tasks within this project:**

In this project I was in charge of the porting and adjustment of an already existent service for the development of test data. Later on I took charge of testing and upgrading the inventory module. I was also part of the onsite commissioning team responsible for the successful implementation and system rollout at the client's offices in Hamburg.

**Programming Languages, tools, etc. used:**

Java, JEE, Oracle Database 11g, Hibernate, JSF, JSP, HTML, CSS, JavaScript, CaptainCasa Enterprise Client, CVS, Eclipse, DBVisualizer, Actricity, JasperStudio, iReport, UML, PL-Store Software Solutions, Extensible Markup Language (XML), Apache Ant, Apache Tomcat Server

02/2016 - 05/2016

**Customer:** buttinette Textil-Versandhaus GmbH  
**Industry:** Manufacturing and Trade  
**Project title:** Maintenance and Process Realization of a new Warehouse Management System

**Project description:**

The business buttinette Textil-Versandhaus GmbH operates in the mail-order trade via the internet and engages in the end customer transaction. The assortment of goods covers a total of 25.000 commodities, i.e., craft supplies, wool products, products and costumes for carnival. In order to optimize the delivery time and increase efficiency of the logistic operating process the company proLogistik GmbH & Co. KG developed a new warehouse management system, which is primarily intended to support the replenishment of products in all storage facilities nationwide.

**Description of my tasks within this project:**

During my engagement in this project I took upon testing and correcting defects in operating processes, as well as restocking palettes and managing transports between the storage facilities. Furthermore, I was in charge of installing and adjusting existing mobile processes for new Android devices. Another assignment was the creation of technical and user documentations.

**Programming Languages, tools, etc. used:**

Java, JEE, Oracle Database 12c, Hibernate, JSF, JSP, HTML, CSS, JavaScript, CaptainCasa Enterprise Client, CVS, XML, Eclipse, DBVisualizer, Actricity, JasperStudio, iReport, UML, PL-Store Software Solutions, Extensible Markup Language (XML), Apache Ant, Apache Tomcat Server

02/2016 - 05/2016

**Customer:** Heil & Sohn GmbH & Co. KG  
**Industry:** Automobile Industry  
**Project title:** Maintenance and Upgrade of the existent Warehouse Management System

**Project description:**

The company Heil & Sohn GmbH & Co. KG supply a broad assortment of spare parts for vehicles. The warehouse management system required an upgrade to modernize and optimize the logistic operating process.

**Description of my tasks within this project:**

My tasks in this project covered the extension the system interface to an SAP enterprise resource planning system, the extension of the existing data module based on new customer requirements, as well as drafting new printing documents and reports. Additionally, I was also responsible for bug fixing and the extension of the inventory module.

**Programming Languages, tools, etc. used:**

Java, JEE, Oracle Database 12c, Hibernate, JSF, JSP, HTML, CSS, JavaScript, CaptainCasa Enterprise Client, CVS, XML, Eclipse, DBVisualizer, Actricity, JasperStudio, iReport, UML, PL-Store Software Solutions, Extensible Markup Language (XML), Apache Ant, Apache Tomcat Server

03/2014 - 10/2015

**Customer:** DÄNISCHES BETTENLAGER (Jysk in Sweden)  
**Industry:** Manufacturing and Trade  
**Project title:** Quality Assurance, Maintenance, and Process Realization of a new Warehouse Management System

**Project description:**

The company Jysk, in Germany known as Dänisches Bettenlager, is a very successful chain of stores in Scandinavia and the DACH-countries of Germany, Austria, Switzerland. The assignment was to develop a new warehouse management system for the newly built high rack storage area of ca. 75.000 storage grounds. This new system was intended to administer the intra-logistic storage processes of the new construction as well as that of the overall existent warehouse in order to, eventually, replace the old software.

**Description of my tasks within this project:**

During my time working on this project I was not only responsible for the development of new business processes, i.e., the receipt of goods, quality assurance, inventory and drafting of printing documents, but co-designed the new data models. The entry of all storage-locations into the system was also part of my regular tasks.

Furthermore, was I responsible for the quality assurance of modules, as well as other modules like planning and commissioning by means of manual and automatic tests. Another of my responsibilities in this project was the extension and adjustment of the existing data models for mobile devices (PDAs and industry tablets).

During the final stages of the project I was positioned in Dortmund as well as on the ground in Nässjö, Sweden to test the complete system (software and hardware) and to launch it. The creation of technical and user documentations and as well as test cases were part of my regular tasks.

**Programming Languages, tools, etc. used:**

Java, JEE, Oracle Database 11g, CVS, Tortoise CVS, SVN, Tortoise SVN, Eclipse IDE, Extensible Markup Language (XML), JIRA Bug Tracking System, Apache Ant, Continuous Deployment, Eclipse JFace und SWT, Hibernate, JUnit, Jenkins, IBM WebSphere Application Server

02/2013 - 03/2014

**Customer:** beeline GmbH

**Industry:** Manufacturing and Trade

**Project title:** Quality Assurance, Maintenance and Upgrade of an existing Warehouse Management System

**Project description:**

The overall intra-logistic operating processes and capacities for the main facility in Köln Kalk of specialist for costume-jewelry and supplier beeline GmbH of the Beeline Group had to be modernized.

**Description of my tasks within this project:**

In this project was the quality assurance of the overall operating process one of my main tasks, in which the integrity, the persistence, and the logical composition of the whole data model between modules (before, during, and after their conversion) were to be reviewed. This task covered processes such as the receipt of goods, the bin strategy of palettes (MFS supported), the quality inspection, and the management of outgoing goods. These checks included the creation of host data via an SAP Interface for IDOCS, the simulation of the implementation of every operating process on selected work stations, and the monitoring of the transition of data states in the overall data flow by means of unit and integration tests.

Additionally, due to new customer requirements I was responsible in adjusting the business logic and the corresponding changes for these stationary management processes on mobile devices (PDAs and industry tablets).

Noteworthy here is also the completion of printing documents using the ZEBRA-Printer programming language. The creation of technical and user documentations as well as bug fixing counted among my regular tasks.

**Programming Languages, tools, etc. used:**

Java, Java EE, Oracle Database 9i/10g, Hibernate, CVS, Tortoise CVS, SVN, Tortoise SVN, Eclipse IDE, Extensible Markup Language (XML), JIRA Bug Tracking System, Java, JEE, Apache Ant, Continuous Deployment, Eclipse JFace und SWT, Hibernate, JUnit, Jenkins, IBM WebSphere Application Server