



Experienced full-stack developer with a focus on modern web technologies and a passion for clean, maintainable software. I work with Java, Kotlin, and TypeScript, using well-established frameworks such as Spring Boot, React, and Angular. In addition to developing high-quality software solutions, I'm interested in all aspects of the software development process. That's why I'm also happy to take on DevOps-related tasks, particularly the development of CI/CD pipelines and deployments using Docker or Kubernetes. Quality is my top priority – which is why I place great emphasis on automated testing and robust software architectures.

Project overview

Jun 24 - Mar 25 ● **Healthcare administration software**

- Implementation of functional features
- Development of microservices with zero-trust
- Implementation of unit to end-to-end tests

Jun 23 - Jul 24 ● **Webshop checkout flow**

- Development of microservices
- Database migration between cloud environments
- Operational support including on-call duty

Nov 22 - Nov 23 ● **Geodetic administration software**

- Development of a web and desktop application
- Development and optimization of CI pipelines
- Implementation of unit to end-to-end tests

Aug 21 - Oct 22 ● **Fleet management system**

- Development of microservices
- Operational support
- Development and optimization of CI pipelines

Jul 19 - Sep 21 ● **Dialog marketing software**

- Application development and modernization
- In-depth optimization of CI pipelines
- Implementation of unit to end-to-end tests

Programming languages

	Java	<div><div></div></div>
	Kotlin	<div><div></div></div>
	TypeScript	<div><div></div></div>
	PHP	<div><div></div></div>
	Python	<div><div></div></div>
	Bash	<div><div></div></div>
	Golang	<div><div></div></div>
	Rust	<div><div></div></div>
	Lua	<div><div></div></div>
	Nix	<div><div></div></div>


Frameworks

Framework	Popularity (Estimated)
Spring Boot	100%
React	85%
Angular	75%
Symfony	65%

Databases































Database	Percentage
PostgreSQL	95%
Oracle DB	85%
MySQL	80%
Redis	75%
mongoDB	70%

DevOps



Tool	Popularity (Relative)
Docker	100%
Kubernetes	~85%
GitLab CI	~65%
Jenkins	~45%

Additional technologies

Frameworks		Testing		Monitoring	
 Hibernate	<div><div></div></div>	 JUnit	<div><div></div></div>	 Prometheus	<div><div></div></div>
 Liquibase	<div><div></div></div>	 Playwright	<div><div></div></div>	 Grafana	<div><div></div></div>
 Next.js	<div><div></div></div>	 Cypress	<div><div></div></div>	 Elasticsearch	<div><div></div></div>
 MUI	<div><div></div></div>	 Cucumber	<div><div></div></div>	 Logstash	<div><div></div></div>
 Ktor	<div><div></div></div>	 SonarQube	<div><div></div></div>	 Kibana	<div><div></div></div>
DevOps		Devtools		Collaboration	
 Helm	<div><div></div></div>	 Git	<div><div></div></div>	 GitLab	<div><div></div></div>
 Traefik	<div><div></div></div>	 Neovim	<div><div></div></div>	 GitHub	<div><div></div></div>
 nginx	<div><div></div></div>	 IntelliJ IDEA	<div><div></div></div>	 Jira	<div><div></div></div>
 ArgoCD	<div><div></div></div>	 Gradle	<div><div></div></div>	 Confluence	<div><div></div></div>
 Ansible	<div><div></div></div>	 OpenAPI	<div><div></div></div>	 Figma	<div><div></div></div>

Project descriptions

June 2024 - March 2025

Healthcare administration software

cronn GmbH



Development of a comprehensive administration software for the healthcare sector, based on a modern microservices architecture. The system consists of a central core module and numerous domain-specific base modules, all implemented according to the zero-trust security principle.

Role and responsibilities

- Member of one of nine agile Scrum teams with a focus on implementing business features
- Full-stack development with responsibility for both frontend and backend components
- Implementation of complex business logic while adhering to strict security and data protection requirements

Technical focus areas

- Implementation of microservices in compliance with the zero-trust security model
- Full-stack development of complex, business-critical features
- Ensuring interoperability between various modules of the administration software

June 2023 - July 2024

Webshop checkout flow

cronn GmbH



Development and operation of a scalable webshop for streaming services based on a modern microservices architecture. The platform was specifically optimized to handle high transaction volumes during peak times.

Role and responsibilities

- Member of a Scrum team focusing on the checkout flow of the webshop
- Full-stack development of business-critical features along the customer journey
- Design, implementation, and optimization of CI/CD pipelines for efficient deployment processes
- Development of specialized pipelines for complex data migrations between cloud environments
- Active participation in the operational support of the platform including on-call duty

Technical focus areas

- Performance optimization of the checkout flow to handle peak loads
- Implementation of scalable microservices with a focus on fault tolerance and resilience
- Automation of deployment and migration processes to increase development efficiency
- Monitoring and troubleshooting in production cloud environments
- Continuous improvement of the system architecture based on load analyses

November 2022 - November 2023

Geodetic administration software

cronn GmbH



Development of a specialized administration software for the geodetic sector with a dual architecture – consisting of a web application for online operation and a desktop application for offline use in the field.

Role and responsibilities

- Contribution to the development of both application components
- Significant involvement in the complex integration of a geodetic database
- Reverse engineering of database functionalities to create a dedicated test environment
- Implementation of solutions for the specific challenges of geodata processing

Technical focus areas

- Development of interfaces for integrating specialized geodetic databases
- Design and implementation of test environments for complex database functionalities
- Ensuring data integrity when processing precise survey data

August 2021 - October 2022

Fleet management system

Deutsche Post IT Services GmbH



Comprehensive modernization and migration of a group-wide fleet management system based on a microservices architecture. The solution enables efficient management of the entire vehicle fleet across all corporate divisions.

Role and responsibilities

- Full-stack development of business-critical features for fleet management
- Design and implementation of CI/CD pipelines to optimize the development process
- Active participation in the operational support of the platform with responsibility for system stability and performance

Technical focus areas

- Development of modular, scalable components within the microservices landscape
- Setup and optimization of automated deployment processes
- Ensuring system availability and operational stability in production
- Support for the gradual migration of legacy data and functions

July 2019 - September 2021

Dialog marketing software

artegic AG



Further development and partial modernization of an extensive dialog marketing software with significant legacy components. Focus on performance optimization, quality assurance, and gradual migration of outdated system components.

Role and responsibilities

- Full-stack development of new features while considering existing legacy structures
- Significant expansion of test coverage to increase code quality and system stability
- Fundamental redesign and optimization of the CI pipeline to increase efficiency in the development process
- Development of a high-performance interface to handle extreme peak loads during peak times

Technical focus areas

- Performance engineering for critical system interfaces under high load
- Implementation of comprehensive test strategies for complex software systems with legacy components
- Radical improvement of build and deployment processes

Personal Projects

artifakts

gitlab.com/malteesch/artifakts



Command line tool for downloading and locally serving GitLab CI artifacts.

Motivation

When debugging failing tests, it's usually necessary to review the test reports generated in the CI pipeline. This tool simplifies the downloading and viewing of reports by simply copying the GitLab job URL and passing it to the tool.

Technical Focus

- Interaction with the GitLab REST API
- Starting parallel web servers for local report serving
- Development and testing with functional programming style

retry

gitlab.com/malteesch/retry



Command line tool for repeatedly executing other programs until a given condition is met.

Motivation

When debugging flaky tests, it can be helpful to run them repeatedly until they fail. This tool helps to repeatedly execute external programs based on predefined criteria while simultaneously outputting the output of these programs.

testies

gitlab.com/malteesch/testies



Command line tool for interacting with JUnit test reports.

Motivation

Opening HTML-based test reports, as generated by JUnit, leads to a context switch from IDE or terminal. This tool aims to prevent this and allows viewing the test report in text form in the terminal.

Education

- Apr 22 - Okt 22 ● **FernUniversität in Hagen**
Master of Practical Computer Science
- Okt 21 - Mär 22 ● **Hochschule Bonn-Rhein-Sieg**
Master of Computer Science
- Okt 16 - Sep 21 ● **Hochschule Bonn-Rhein-Sieg**
Bachelor of Business Information Systems (Grade: 2.1)
- Sep 14 - Sep 16 ● **Hochschule Bonn-Rhein-Sieg**
Bachelor of Mechanical Engineering

Languages

- Native language ● **German**
- C1 ● **English**
Communication with English-speaking colleagues
8 years of school knowledge
Stays in GB, IR, US
- A2/B1 ● **Spanish**
3 years of school knowledge
Stays in ES, MX
Final exam subject
- A1 ● **French**
2 years of school knowledge