






DR. FRANK ZIMMER

Senior Software Engineer /
DevOps

PERSONAL DETAILS

-  Dresden, Germany
-  [linkedin.com/in/frank-e-zimmer](https://www.linkedin.com/in/frank-e-zimmer)
-  frankzimmer.net
-  github.com/dressedfez
-  ORCID

LANGUAGES

- German ●●●●●
- English ●●●●●
- Polish ●●●●●
- French ●●●●●

SKILLS

PROGRAMMING LANGUAGES

- Java / Kotlin ●●●●●
- JavaScript / TypeScript ●●●●●
- Go ●●●●●
- Python / Julia ●●●●●
- Scala / C / C++ / MATLAB ●●●●●

CLOUD & DEVOPS

- Docker / Kubernetes ●●●●●
- Terraform / IaC ●●●●●
- GitLab / GitHub CI/CD ●●●●●
- Linux / macOS / Windows ●●●●●

FRAMEWORKS

- Spring Boot ●●●●●
- Angular / React ●●●●●

QUALITY

- JUnit / Mockito ●●●●●
- Cucumber ●●●●●
- Playwright ●●●●●

PROFILE

Senior software engineer with a PhD in physics and more than ten years of experience designing, building, and operating production-grade systems. Strong focus on backend engineering, DevOps, distributed systems, CI/CD, test automation, and Infrastructure as Code.

SELECTED EXPERIENCE

SENIOR SOFTWARE ENGINEER / DEVOPS

04/2020-present

Dr. Eckhardt & Partner GmbH, Dresden

- Introduced Kubernetes, Docker, Terraform, and CI/CD practices across multiple teams
- Develop backend and frontend services with Spring Boot, Kotlin, Java, Angular, and TypeScript

SOFTWARE ENGINEER

01/2022-present

Deutsche Boerse AG as part of Dr. Eckhardt & Partner GmbH

- Build and maintain a JavaScript/Node.js test framework for real-time market data distribution
- Created Cucumber-based end-to-end tests and improved feed test coverage from 60% to 70%

SOFTWARE ENGINEER / DEVOPS

04/2018-03/2020

Newtron GmbH, Dresden

- Developed Java, Spring Boot, and Go microservices for supply chain management systems
- Built React and TypeScript single-page applications and supported production systems

SOFTWARE ENGINEER

11/2011-03/2018

Systema GmbH, Dresden

- Developed Java-based control and server software for industrial automation systems

EDUCATION

PHD IN PHYSICS

01/2001-07/2006

Technical University of Kaiserslautern

- Dissertation: *Matter-wave optics of dark-state polaritons*
Grade: magna cum laude

DIPLOMA IN PHYSICS

10/1995-12/2000

University of Kaiserslautern

- Thesis: *Resonance Structures in Wannier-Stark Systems*
Grade: very good

SELECTED PROJECTS & PUBLICATIONS

- Maintainer of official MyST Markdown templates for Springer and Physical Review journals
- Lecturer for Julia and Python/data/AI programming courses in Dresden
- Physics publications in *Physical Review Letters*, *Physical Review A*, and *Europhysics Letters*; 500+ citations