

Valerii Zhyla

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EXPERIENCE

Software Engineer

Jul. 2021 – Present

Vivavis AG

Remote, Germany

- Designed and implemented 6 distributed fault-tolerant systems for the German energy infrastructure using Spring Boot and Apache frameworks, introducing new core functionalities into the product
- Served as an expert in engineering decisions across different teams, contributing to the development of product and project-specific components, and adapting existing systems to evolving environments and increasing loads
- Analyzed and improved 8 microservice architectures for high-load web services based on REST and MQ communication, enhancing service reliability and adaptability to varying loads
- Participated in requirements engineering for 50+ new product features and managed communication with stakeholders across various countries, leading to the development of cost-efficient solutions that were successfully reused across different products
- Optimized PostgreSQL production databases, ranging up to 10 TB in size, for high-load environments, improving average transaction processing speed by 300% and achieving a 99.99% uptime, enhancing data processing capabilities and system robustness
- Led the integration of automated testing and TDD practices across 10+ Java projects with JUnit and Cucumber, reducing bug rates by 50%, cutting the number of recurring bugs by 80%, and shortening the QA cycle by 30%
- Created 20+ CI/CD pipelines using GitLab CI/CD, Docker, and Kubernetes, facilitating the transition from legacy deployment methods to container-based strategies

Software Engineer

Mar. 2018 – Jul. 2021

IDS GmbH

Ettlingen, Germany

- Key contributor in the refactoring of a critical system with 200k+ LOC, accelerating average transaction processing time by 200%, reducing failure rate by 60%, and significantly improving maintainability
- Designed, implemented, and maintained data processing and analysis applications using Java and Python
- Engineered and optimized PostgreSQL and Oracle Enterprise databases for 10+ backend services, enabling components to handle up to 400% of the initial load without requiring additional resources
- Developed internal enterprise web applications for data analysis and visualization using Spring Boot and Vue.js
- Automated 40+ operational tasks with Bash and Python, achieving an 80% to 100% reduction in time spent on manual interventions for specific tasks and enhancing system stability

EDUCATION

Karlsruhe Institute of Technology

Apr. 2022 – May 2024

Master of Science in Computer Science, Minor in Business Administration

Karlsruhe, Germany

Specialization: Software Architecture and Quality, Machine Learning, Bioinformatics

Karlsruhe Institute of Technology

Oct. 2017 – Mar. 2022

Bachelor of Science in Computer Science, Minor in Business Administration

Karlsruhe, Germany

TECHNICAL SKILLS

Languages: Java, Python, SQL

Frameworks: Spring Boot, JUnit, Mockito, Cucumber, JDBC, Hibernate, Apache Camel, PyTorch, FastAPI

Databases: PostgreSQL, MongoDB, Redis

Architecture and Design: REST, gRPC, GraphQL, UML, Microservices

Distributed Systems: Apache Hadoop, Apache Spark, Apache Kafka

Developer Tools: Maven, Git, Liquibase, Prometheus, Grafana

CI/CD and Cloud: GitLab CI/CD, Docker, Kubernetes, AWS

LANGUAGES

English: Proficient (C1)

German: Proficient (C1)

Ukrainian: Native

Russian: Native