

BIRUK AMARE

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Permanent Residence: Germany

WORK EXPERIENCE

Senior Software Developer

NördlicheDigitale GmbH

Jun. 2022 – Jun. 2023

Bremen, Germany

- Developed and enhanced software solutions for B2B e-commerce platforms, including the implementation of new product search pages and additional feature integrations.
- Backend support using Java, SAP Hybris and Celum.
- *Tech Stack:* Java, AngularJS/Typescript, SAP Hybris, Ant, Docker, Celum, HTML, CSS, XML, Postman, IntelliJ IDEA, MySQL, jQuery, Nginx, Microservices, CLI, Git, Jira, Confluence.

Software Developer

Fricke Group

Oct. 2018 – Sep. 2020

Bremen, Germany

- Facilitated the migration to vertical-based development of different E-commerce subsidiaries.
- Developed object-oriented applications in Java, following SOLID, CI/CD, and clean code practices.
- Enhanced product detail pages by integrating new features using pattern library components.
- Managed installation, customization, and documentation processes.
- *Tech Stack:* Java, Coffeescript, HTML, CSS, NodeJS, ExpressJS, Mocha, SAP Hybris, Ant, Jenkins, XML, Spring, RESTful Services, Postman, Eclipse, IntelliJ IDEA, Apache SOLR, MySQL, MongoDB, jQuery, Nginx, Microservices, CLI, Git, Jira, Confluence.

WORK-STUDY EXPERIENCE

Master Thesis

Friedrich-Alexander-Universität Erlangen-Nürnberg

Feb. 2024 – Sep. 2024

Erlangen, Germany

- Developed and optimized high-performance computing schemes within an LLVM-based compiler framework.
- Utilized a C++ based API to write IR programmatically, enabling the development of custom tools and targeted optimizations.
- Designed and optimized low-level FIR filters for efficient hardware utilization.
- Integrated various HPC techniques to maximize computational power.
- *Tech Stack:* C++, C, Python, Make, CMake, LLVM, MLIR, MPI and OMP, Shell, CLI, Linux, Git.

Working Student

Fraunhofer-Institut für Integrierte Schaltungen

Dec. 2021 – May. 2022

Erlangen, Germany

- Collaborated on a sentiment analysis (NLP) platform, enhancing the interface for a smoother user experience.
- Extended backend components and improved frontend visualizations to support efficient sentiment labeling workflows.
- *Tech Stack:* Python, Django, Docker, Vue.js, HTML, CSS, Jira and Confluence.

Teaching Assistant

Jacobs University

Feb. 2016 – Jun. 2018

Bremen, Germany

- Assisted in teaching, tutoring and grading for various courses like Communications, Communications Lab, Electronics, Electronics Lab, Digital Signal Processing and Applied Mathematics Lab.

Student Assistant

Max Planck Institute for Marine Microbiology

📅 May. 2016 – Aug. 2016

📍 Bremen, Germany

- Created Window Plugins for the Leaflet.js open source webGIS library.
- Developed object-oriented applications in JavaScript.
- Wrote user guides for the web tools developed.
- *Tech Stack*: JavaScript, Git and Gitbook.

EDUCATION

M. Sc. | *Computer Science*

Università della Svizzera italiana

Friedrich-Alexander-Universität Erlangen-Nürnberg

📅 Oct. 2020 – Sep. 2024

📍 Lugano, Switzerland

📍 Erlangen, Germany

B. Sc. | *Electrical and Computer Engineering*

Jacobs University

📅 Sep. 2015 – Aug. 2018

📍 Bremen, Germany

SKILLS

Programming Languages: Java (v8 - v11), Typescript, PHP (v8), Python, C++, C

Frameworks & Libraries: NodeJS, ExpressJS, AngularJS, Django, Spring, REST, Leaflet.js

Databases & Data Management: MySQL, MongoDB, Apache SOLR

Tools & Platforms: Docker, SAP Hybris, IntelliJ IDEA, VS Code, Jira, Confluence, Postman, Eclipse, Celum, Valgrind

Build Tools: Ant, Maven

Version Control & CI/CD: Git, Jenkins, Continuous Integration/Continuous Delivery (CI/CD)

Methodologies & Practices: Test-Driven Development (TDD), Behavior-Driven Development (BDD), Clean Code, SOLID, Microservices, Design Patterns

Web Technologies: Coffeescript, HTML, CSS, JQuery, XML, Nginx

Operating Systems & CLI: Linux, Unix Terminal, MacOS, Shell Scripting

Testing: JUnit, Mocha, Integration testing

Languages: English: Fluent (C2) · German: Advanced (B2) · Italian: Beginner (A1)