





# Saurabh Biware

Full Stack Developer 

 Munich, Germany

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 Saurabh-Biware

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## EXPERIENCE

### OERLIKON DIGITAL HUB | SOFTWARE ENGINEER

Apr 2022 – Current | Munich, Germany

- Revamped digital ordering platform UX, boosting conversion rates by 25% through responsive design and performance optimization, achieving 40% faster load times using modern frontend frameworks integrated with backend Node.js microservices.
- Achieved a 30% reduction in critical bugs by analyzing issue reports before and after the frontend overhaul, improving overall system architecture and microservice communication.
- Developed a scalable frontend for a data-intensive app with real-time data processing, supported by Node.js backend microservices deployed on AWS Lambda, cutting load times by 50%.
- Implemented Single Sign-On (SSO) across multiple applications, ensuring strict security compliance with robust backend authentication microservices.
- Designed and maintained MongoDB data models and databases for development and production, ensuring efficient data storage and retrieval in microservices architecture.
- Developed and deployed backend microservices on AWS Lambda using Node.js, leveraging serverless architecture for scalability and cost efficiency.
- Connected IoT-enabled digital access box via OPCUA protocol to retrieve machine data and enable real-time synchronization with the Digital Twin system.
- Led comprehensive knowledge transfer sessions on Node.js microservices best practices, AWS cloud services, Redis caching strategies, and overall full stack development to enhance team proficiency.

### ABB AG | INTERNSHIP AND MASTER THESIS STUDENT

Jun 2021 – Apr 2022 | Ladenburg, Germany

- Implemented a visual representation for long time-series process industry data using a Change Point Detection Algorithm, focusing on semantic segmentation for semi-periodic time-series to enable compact, easy-to-understand stacked visualizations.
- Proposed an innovative aggregation method using established paradigms for 2-D plots to effectively represent the base form and distribution of data.

### TATA CONSULTANCY SERVICES | JR. SOFTWARE DEVELOPER

Feb 2019 – March 2020 | Pune, India

- Advocated for the importance of User Experience and engaged the core team and stakeholders throughout the design process.
- Designing new databases and data schemas for the high volume single page applications improving data integrity in the underlying process.
- Involved in analysing, designing, development, and implementation of analytical technologies and data warehousing concepts.
- Conducted user interviews using Design Thinking to capture business requirements and KPIs.
- Creating mock-ups, high fidelity Prototypes for web applications using Agile Methodology.
- Participated in kick-off meetings, interviews, design studios, and user testings.

## SKILLS

### PROGRAMMING

Proficient:

JavaScript • TypeScript • Java  
• Python • MySQL • OOPS  
• Node.js

Experienced:

JavaScript • TypeScript •  
Python • Node.js

### LIBRARIES/Frameworks

• Express • Angular  
• React • Pandas  
• Numpy • Plotly • NextJS  
• TailwindCSS • PrimeNG  
• Jest • React testing library

### TOOLS/PLATFORMS

• Git • Adobe XD • AWS •  
Insomnia • Docker • JIRA  
• Azure Devops • RestAPI  
• GraphQL

## EDUCATION

### SRH HOCHSCHULE HEIDELBERG, GERMANY

MASTER'S IN COMPUTER SCIENCE

Apr 2020 - 2022 | Cum. GPA: 2.0 / 5.0



### UNIVERSITY OF PUNE, INDIA

BACHELOR'S IN COMPUTER SCIENCE  
AND ENGINEERING

May 2016 | Cum. GPA: 1.8 / 5.0 (As per  
German grade)

## REFERENCES

Catalin Batrinu, Technology  
lead, Oerlikon Digital Hub

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## AWARDS

• Best Master Thesis  
Applied Computer Science, 2022.