

# Dharmik Savaliya



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## SUMMARY

Java Backend / Fullstack Developer with experience building scalable web applications using **Java, Spring Boot, RESTful APIs, SQL, and Docker**. Experienced in designing backend services, optimizing performance, and integrating frontend applications using **React.js**. Familiar with **Microservices architecture, Git, CI/CD pipelines, and Linux environments**. Strong problem-solving mindset with focus on **clean architecture, reliability, and maintainable code**.

## EDUCATION

**Masters in computer science | University of Paderborn, Germany**

*April 2022 – Present*

- **Specialization:** Software Engineering

**Bachelors in computer science | Gujarat Technological University, India**

*August 2017 – July 2021*

- **Specialization:** Software Engineering and Cyber Security
- **Final Year Project:** [Smart SAMS](#)
- **Student of the Year** award

## WORK EXPERIENCE

**Junior Software Developer (Java Backend / Application Development)**

*Oct 2023 – Present*

*at LIRA Service GmbH, Paderborn*

**Technologies:** Android Studio, Eclipse, Java, Spring, SQL, Oracle, JPA

- Designed and improved Java-based backend components for a CMMS system using Spring Boot and **REST APIs** by analyzing usage patterns and performance metrics from the application dashboard, resolving performance and reliability issues and contributing to a **40% increase** in active system usage.
- Identified delays in maintenance workflows and implemented real-time updates and barcode-based asset handling, **reducing task handling time by approximately 10 minutes** per session.
- Developed backend services using **JAVA** and **SPRING BOOT**, implementing secure **RESTful APIs** for communication between mobile clients and backend systems.
- Improved **data synchronization performance and reliability** and developed supporting UI components using **SWT**.
- Applied structured unit testing and code review practices to **reduce regression issues, improve maintainability, and increase backend stability**.

## PROJECT WORK

**SecAI – AI powered Security Plugin for SonarQube**

*June 2024 – September 2025*

*Paderborn University | Master's Project*

- Developed an **AI-driven plugin** for *SonarQube* integrating the **Cognicrypt SAST** tool to **detect** and **explain** security vulnerabilities in source code.
- Implemented **Quick Fix and Pull Request automation** to bridge analysis result with real-world developer workflows
- Built **React.js** based modern UI for clear visualization of issues in the form of Error Tree.

- Designed automated test scenarios using JUnit5 to **validate complex analysis logic and prevent false positives**, achieving **57% backend code coverage**.
- Deployed and tested backend services in **Linux-based environments** using **Docker** for local and CI-based builds.
- **Tech Stack:** Java, React.js, Docker, SonarQube, Ubuntu, GitHub, VM, CI/CD

### **Blog Web Application(Full Stack using MERN stack)**

*November 2022 – December 2022*

- Developed a Blog webapp with the use of MERN(MongoDB, ExpressJS, React, NodeJS) stack
- Features Included:
  1. Create and Login with authentication using JWT for user.
  2. Users can **create, update, and delete blog posts** using authenticated JWT sessions.
- **Link:** [Blog APP \(MERN Stack\)](#)

### **Argumentation using Neural Networks**

*May 2022 – August 2022*

- Included Data splitting, Argument Mining including Argument Quality Assessment
- Developed a system with the capability of finding foremost arguments with accuracy above 80%, from a given Dataset Corpus.
- **Tech Stack:** Python, Pandas, NumPy, NLTK (Natural Language Toolkit)
- **Link:** [Argumentation using Neural NETS](#)

### **Smart SAMS (Smart Attendance Management System)**

*May 2020 – April 2021*

- Developed an android application to track and manage attendance which helped save the time of doing it manually and it was done with almost 60% accuracy which was measured with practical execution.
- We developed two different applications, one is for administrator purpose for registering users with system, other one is for faculty and students to use it for attendance registering.
- **Tech Stack:** Android, Java, PHP, Google Firebase, MySQL, and hosting with Hostinger, phpMyAdmin
- **Link:** [Smart SAMS](#)

## **SKILLS**

- **Languages:** Java, SQL, Python
- **Backend:** Spring Boot, JPA, REST APIs, Hibernate, Microservices
- **Frontend:** React.js, Javascript, HTML, CSS
- **Databases:** MySQL, Oracle, JDBC
- **DevOps & Tools:** Docker, Git, Github Actions, CI/CD, Maven, Gradle, Postman
- **Systems:** Linux, Windows

## **HONORS and AWARDS**

- Winner of **Coding competition** at **National Technical Festival Ekatra 2020**, as well as honored with best team of management for organizing the whole event.
- Won the **Devang Mehta Award** for the top performer in the **Computer Science** Department in my College for **3 times in row**.