

# ARSALAN AHSAN

## Full Stack Developer

Java | Spring Boot | Python | FastAPI | RESTful APIs | Docker

M.Sc. Computer Science student at Philipps-Universität Marburg with 3+ years of professional software engineering experience. Strong background in Java/Spring Boot backend development, RESTful API design, and full-stack engineering. Passionate about building scalable, high-quality software in mission-critical environments.

## WORK EXPERIENCE

### AICENDENCE

#### Software Development Working Student

Munich, Germany  
Jan 2025 – May 2025

- Supported end-to-end development of backend components for a web platform, contributing to RESTful API design and feature development using Python/FastAPI within an agile team.
- Gathered, documented, and tracked 20+ user requirements, defects, and change requests in Jira — enabling the team to efficiently manage the development backlog and resolve issues.
- Managed code repositories and merge requests via GitLab, maintaining CI/CD pipelines and upholding shared code quality standards in a cross-functional Scrum environment.
- Customised Keycloak authentication workflows and maintained technical documentation (SOPs) to ensure consistent team knowledge and smooth onboarding.

**Tech Stack:** Python, FastAPI, GitLab CI/CD, Jira, Keycloak, Docker, RESTful APIs

### SYSTEMS LIMITED (VODAFONE QATAR)

#### Full Stack Developer

Karachi, Pakistan  
Jan 2023 – Apr 2024

- Built and maintained Java/Spring Boot backend services for Google Pay & Apple Pay integrations, including asynchronous payment event flows using RabbitMQ and Kafka.
- Developed frontend-facing API interfaces and collaborated with UX stakeholders to support intuitive user flows in a digital payments platform.
- Authored and maintained technical documentation for deployment workflows, release procedures, and service interfaces — reducing onboarding time and ensuring stable releases.
- Analysed and resolved complex production bugs using Postman and log tracing; implemented structured logging and runtime metrics to improve system observability.

**Tech Stack:** Java, Spring Boot, JavaScript, PostgreSQL, RabbitMQ, Kafka, GitLab CI/CD, Docker, Postman

### AVANZA SOLUTIONS

#### Software Engineer

Karachi, Pakistan  
Jun 2021 – Dec 2022

- Designed and maintained Java/Spring Boot backend services for financial and onboarding systems, implementing clear domain models in collaboration with domain experts.
- Contributed to frontend integration work and ensured seamless API connectivity between backend services and user-facing applications in live banking environments.
- Wrote and maintained automated unit and integration tests; led refactoring to reduce technical debt and improve system reliability — increasing test coverage by ~25%.
- Documented service interfaces and technical decisions (SOPs, wiki entries) to maintain team knowledge and facilitate deployment validation.

## CONTACT

ahsanarsalan412@gmail.com

+49 1712935987

[linkedin.com/in/arsalan-ahsan26](https://linkedin.com/in/arsalan-ahsan26)

[github.com/arsalanahsan](https://github.com/arsalanahsan)

Munich, Germany

## TECHNOLOGIES

### Backend:

Java (3+ yrs), Python (1+ yrs)

Spring Boot, FastAPI,

Microservices

### Frontend:

JavaScript, HTML/CSS

RESTful API Design

### Data & Visualization:

SQL, PostgreSQL, MySQL, Redis

Google Data Studio, Elasticsearch

### DevOps & Cloud:

Docker, GitLab CI/CD

Kubernetes/OpenShift

### Tools:

Jira, Postman, Git

MS Office (Word, Excel,

PowerPoint)

## LANGUAGES

English: C1 – Business Fluent

German: A2

Urdu: Native

## CERTIFICATIONS

### Microservices with gRPC

Udemy

### Database Course

IBA University

## EDUCATION

### Philipps-Universität Marburg

M.Sc. Computer Science

Marburg, Germany

Expected Sep 2027

### University of Karachi

B.Sc. Software Engineering

Karachi, Pakistan

Jan 2017 – Dec 2020

**Tech Stack:** Java, Spring Boot, SQL, PostgreSQL, MySQL, JUnit, Mockito, GitLab

## PROJECTS

---

### **Semantic Search Application** — *M.Sc. Project, Philipps-Universität Marburg (2025)*

- Developed a semantic search web app using Elasticsearch and FastAPI, improving search accuracy by 30% over keyword-based methods via Sentence-BERT (SBERT) embeddings.
- Built a full-stack solution with real-time query processing and an intuitive search interface — demonstrating end-to-end ownership from backend APIs to frontend UX.

