Arsalan Ahsan

Software Engineer | 3+ years of Experience | Working Student

Marburg, Germany • (+49) 171 2935987 • ahsanarsalan41@gmail.com • LinkedIn • GitHub

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EDUCATION:

Masters in Computer Science – Philipps University of Marburg, Germany   **04/2024 - Current**
(In progress; expected completion: March 2026)

Bachelors in Software Engineering – University of Karachi, Pakistan   **01/2017- 12/2020**

SKILLS:

Front-End: JavaScript, ReactJS, CSS, HTML5
Back-End: Java, J2EE, Python, Spring Boot, FastAPI, Rest APIs, Micorservices
SQL/Databases: PostgreSQL, MongoDB
Cloud Platform/Computing: Docker, Kubernetes
Tools/Methods: GitLab, Maven, JUnit, Pytest, Keycloak, Agile, Scrum, CI/CD, Version Control, DevOps Collaboration
Soft Skills: Critical Thinking, Research and Analysis, Problem-solving, Adaptability, Communication

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PROFESSIONAL EXPERIENCE:

Working Student - Software Developer – Aicendence, Munich, Germany   **01/2025 – Current**
- Developed a clinical lab management backend with FastAPI, PostgreSQL, and Docker, cutting API response times by 40% via optimized queries and indexing.
- Built 25+ RESTful endpoints for core modules (Orders, Labs, Services, Practitioners, Modifiers), speeding up MVP delivery by 50%.
- Integrated Keycloak for authentication and RBAC, boosting security and streamlining access control.
- Worked closely with frontend developers to design clean API contracts, reducing integration time by 25%.

Java Developer – Systems Limited, Karachi, Pakistan *(Client: Vodafone Qatar)*   **01/2023 – 05/2024**
- Engineered secure payment APIs for postpaid and prepaid journeys using Java 8, J2EE, Oracle WCS, and PostgreSQL, increasing Google Pay 3D Secure success by 15%.
- Implemented upfront payment support, increasing transaction completions by 20% and reducing user drop-off by 30%.
- Led unit and integration testing with QA, Security, and DevOps teams, cutting integration issues by 25%.
- Enhanced transaction data layers in collaboration with Digital Marketing, improving data accuracy by 70% and customer engagement by 15%.

Software Engineer – Avanza Solutions, Karachi, Pakistan *(Client: Al Khaleeji Bank, Bahrain)*   **06/2021– 12/2022**
- Architected and maintained KYC backend services using Spring Boot and Microservices, cutting manual verification time by 40% and improving onboarding efficiency.
- Diagnosed and resolved backend issues, reducing system downtime by 30% and boosting overall performance.
- Ensured deployment quality and system stability by coordinating closely with infrastructure and QA teams, maintaining a 95% uptime rate.
- Earned "Rising Talent" recognition for consistently delivering high-impact features with 98% on-time task completion.

LANGUAGES:

English: C1 (Professional), German: A2 (Learning), Urdu: Native

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CERTIFICATIONS AND ACHIEVEMENTS:

- Microservices with gRPC (Java + Spring Boot + Protobuf) - Udemy
- Rising Talent Award - Avanza Solutions
- Database Course - IBA University