Faisal Shahzad

✉ faisal712000@gmail.com 📞 +923049952876 📍 Lahore, Pakistan in faisalshahzad2302

PROFILE

Software Engineer with experience in designing scalable software solutions, focusing on clean architecture, performance, and maintainability. At TechFoot, I help develop and optimize applications using modern technologies and practices. Known for problem-solving, collaboration, and a drive for continuous improvement.

EDUCATION

Namal University Mianwali, *BSCS (CGPA: 3.0/4.0)*   Sep 2017 – Nov 2021
Coursework: *Computer Architecture, Artificial Intelligence, Data Structures and Algorithm, Operating Systems, Computer Networks*

PROFESSIONAL EXPERIENCE

Techfoot, *Software Engineer*   Apr 2022 – present | Lahore, Pakistan
- Played a key role in the development of Spreesuite, an ERP and fintech platform built on a microservice-based architecture using **hexagonal architecture** and **domain-driven design** (DDD) principles.
- Designed and implemented comprehensive solutions for payroll and sales in the accounting and billing domain, ensuring efficient financial management and compliance with relevant standards.
- Developed and deployed a basic stock management service, providing essential functionality for inventory tracking and control.
- Worked on MariaDB transaction management and improved database scalability using **Galera cluster.**
- Implemented Redis for caching to enhance application performance.
- Wrote and maintained unit tests for all microservices to ensure code reliability and functionality.
- Implemented a testing service to execute integration tests with predefined testing scenarios, enhancing overall system stability.
- Dockerized the applications for consistent deployment and streamlined the deployment process on server environments.
- Integrated **Kafka** as a message broker for seamless microservice communication, enabling scalable and reliable data exchange between services.
- Implemented **Elasticsearch** for efficient logging and monitoring of the application, improving visibility into system performance and error tracking.
- Reduce time for initial load of application frontend by optimising the application using concepts like lazyloading and successfully upgraded it from Angular version 6 to version 15.
- Led the development team and established processes to facilitate smooth communication and collaboration.
- Worked on system integration with **ZYP**, a software for electric bikes, focusing on their billing system.
- Utilized a tech stack that included Nodejs, Angular, and MariaDB.

Devhood, *Intern Software Engineer*   Nov 2021 – Mar 2022
                                                                                         Islamabad, Pakistan
- Worked on designing and developing the User interface using React Native.

PROJECTS

Plant Disease Recognition, *Capstone Project*
- Developed a machine learning-based Android application to help farmers identify plant diseases. By simply taking a picture, the app would analyze the image, diagnose the disease, and recommend appropriate medications, providing an accessible and practical solution for improving crop health and yield.
- Collected data from different sites by visiting and meeting the farmers on site.
Tech Stack: Python, Google Colabs and Spider IDE, Java for android development, Azure cloud for deployment.

CERTIFICATES

- CodeFest'21 Senior Programming Competition
- PUCON'23 WEB HACKATHON

SKILLS

JavaScript — NodeJs, AngularJs, ExpressJs, **Databases** — MySQL, Redis, MariaDB, Galera Cluster, **Testing Tools** — Qmetery, JMeter, MochaJs, **Deployment** — BitBucket, git, Docker, DigitalOcean., **Misc.** — Apache, Ngnix, Jira, Webhooks, Kafka, Elastic Search, **Non-Tech skills** — Problem Solving, Teamwork, Leadership, Communication Skills