TALHA RIZWAN

Backend Software Engineer

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Profile

Language agnostic, Results-driven and Adaptable **Backend Software Engineer** with **3+ years of experience** in **Java** and **Spring boot**.

Experience

Software Engineer - Java Developer   **February 2025 – August 2025**

Global Financial Media — Mubasher Info   *Islamabad, Pakistan*

- Migrated a monolithic **Spring**-based system to a scalable event-driven architecture using **AWS Lambda** (Node.js), significantly improving data reliability and fault tolerance for real-time stocks data.
- Designed and implemented a robust event failure handling mechanism to persist, monitor, and retry failed events (e.g., DB locks, system downtime), enhancing system resilience using **Kafka** queues.
- Led the integration of Discord into Tadawuly, a **Spring Boot**-based social platform, including full **OAuth2** flow, bot onboarding, and real-time post/message sync using Discord Gateway.
- Developed backend services using **Java 17, Spring Boot, Redis (for caching), RabbitMQ, and WebSockets** for real-time features across multiple financial data products.
- Regularly collaborated in Agile sprints, delivering features and fixes via **JIRA** managed tasks, conducting PR reviews, and participating in stand-ups and sprint reviews.

Software Engineer - Java Developer   **November 2024 – February 2025**

Tangent Technologies - WoW Health   *Islamabad, Pakistan*

- Gained in-depth understanding of WoW Health's software architecture based in **Java Spring boot**, including integrations with third-party services, payment gateways, and internal financial systems.
- Learned **core concepts of banking and payment systems**, including order workflows, vouchers, ledgers, sub-ledgers, and credit/debit reconciliation.
- Developed a refund rollover system to automatically apply unused credits to next-month invoices and adjust pricing accordingly in **Spring boot and PostgreSQL**.
- Built a commission management module in **Java Spring boot** to calculate and distribute commission amounts to partner agencies based on order values.
- Explored **Google Cloud Platform (GCP)** deployment infrastructure along with the Revamped microservice architecture for **Spring boot** application.
- Gained hands-on exposure to multi-tenancy design pattern in **Spring boot** based backend systems.

Software Engineer   **January 2024 – November 2024**

Alachisoft - NCache   *Islamabad, Pakistan*

- Gained hands-on experience with distributed caching topologies including Mirrored, Replicated, and Partitioned-Replicated Caches using NCache developed in **Core Java**.
- Contributed to the development of NCache Playground, a browser-accessible platform offering isolated, **containerized environments** for real-time NCache trials using **Spring boot and docker**.
- Worked on a SaaS platform built in **Java Spring boot** for provisioning and managing NCache environments on **AWS** and **Azure**, including automation of VMs, networks, subnets, and billing using **Terraform**.
- Followed **Agile** practices using **Azure DevOps**, actively participating in **sprint planning, user story creation, task management, branching, and pull request workflows**.

Project

Easy Electro Shop   **March 2023 - December 2024**

- Developed an E-commerce website based on Microservices architecture using Spring Cloud.
- Hands on experience in using **Spring Security, Eureka Server, Api-Gateways, Transactions using SAGA, Kafka Queues, Redis** in a microservices environment
- Deployed the microservice architecture on **AWS ECS** using **docker** containers with horizontal scaling.
- Build the front-end of the application in Next.js with hands on experience on managing front-end components, integration RESTful Apis using Axios, managing state of the component, and life cycle of a component.

Microservice Architecture with Security Starter

- Developed a **Microservice Spring boot starter** with Authentication and JWT based Authorization
- Developed the **OAuth2 Resource Server** with capability of incorporating any **Authentication Server** such as Google, Facebook etc.
- Got 100s of clones and Pull requests on the Github repository.

Education

University of Turku, Finland   **2025 – Ongoing**

Master's in Information and Communication Technology, Software Engineering Track

- ∗ Pursuing Master's in Information and Communication Technology with a specialization in Software Engineering and minors in Machine Learning and Scalable Software Systems.

COMSATS University Islamabad, Islamabad   **2020 – 2024**

Bachelor of Science in Software Engineering   *CGPA 3.77/4.00*

- ∗ With a strong focus on Software Engineering, I learned and experienced a practical software development life cycle with latest industry driven approach.
- ∗ My thesis in web applications allowed me to analyze industry-rated web applications build using **Java Spring boot**, incorporating modern AI modules powering businesses with a large user base

Technical Skills

Languages	Java (8.0/11.0/17.0), Javascript, SQL
Web & Frameworks	React, Spring, Spring Boot, Jakarta EE, Spring JPA, Hibernate, Spring Security, Spring MVC, Spring Cloud, Spring Integration, Spring Web Services
Databases	MySQL, PostgreSQL, MongoDB, Redis
Cloud & DevOps	AWS, Docker, Jenkins, CI/CD, Terraform, Kubernetes
Architectures	RESTful, GraphQL, SOAP, OAuth, Microservices
Tools & Others	Kafka, JUnit, Git, Linux, Debugging, LLMs, Jira
Soft Skills	Problem-Solving, Teamwork, Communication, Self-Motivation, Agile Methodologies

Achievements

Academic Gold Medal

I was awarded with the prestigious award of Academic gold medal.

Certifications

SOLID Principles: Introducing Software Architecture & Design

Distributed Systems & Cloud Computing with Java

AWS Cloud Technical Essentials

Machine Learning for Absolute Beginners - Level 1

Artificial Intelligence A-Z 2024: Build 7 AI + LLM & ChatGPT

Cisco Networking Academy, CCNAv7: Introduction to Networks