

MUHAMMAD ANAS QADRI

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer focused on backend engineering with Java and Spring Boot, building reliable REST APIs and full-stack systems end to end. Experienced designing relational and non-relational data models and integrating real-time, protocol-level communication (WebSockets, IMAP/SMTP) across complete projects from backend architecture through React frontends. Expanding depth in cloud infrastructure, DevOps automation, distributed systems, and open-source software.

TECHNICAL SKILLS

Backend: Java, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Servlets, JSP, Thymeleaf, REST APIs, WebSockets, STOMP, OAuth, JWT, Maven, Spring Security

Frontend: React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, GSAP, Three.js

Databases: MySQL, PostgreSQL, MongoDB, SQL, NoSQL

Data & Messaging: Redis, Kafka, Elasticsearch

DevOps & Cloud: Docker, Kubernetes, AWS, Linux, CI/CD, GitHub Actions

Tools: Git, GitHub, Postman, IntelliJ IDEA, VS Code

Additional: Node.js, Express.js, Python, Go

SELECTED PROJECTS

MailMate | github.com/anasqadri-dev/mailmate

Spring Boot, React, IMAP, SMTP, TinyMCE, DOMPurify

- Engineered a full-featured email client on direct IMAP and SMTP protocol communication instead of a third-party mail API, handling authentication and message retrieval directly.
- Built efficient inbox loading across a Spring Boot backend and React frontend to keep large mailboxes responsive.
- Implemented secure HTML email rendering with DOMPurify sanitization and TinyMCE-based composition to prevent XSS from untrusted message content.

Streamly | github.com/anasqadri-dev/streamly

Spring Boot, React, FFmpeg, HLS

- Architected a video streaming platform delivering adaptive bitrate playback across multiple quality renditions.
- Automated FFmpeg-based transcoding pipelines to generate HLS-compatible video segments server-side.
- Developed a React playback client integrated with a Spring Boot backend for content and stream management.

Wavelength | github.com/anasqadri-dev/wavelength

Spring Boot, React, MongoDB, WebSockets, STOMP, SockJS

- Built a real-time chat application supporting bidirectional messaging over WebSockets with STOMP and SockJS.
- Designed persistent message history storage in MongoDB, preserving conversation state across sessions.
- Implemented Spring Boot backend logic for real-time message brokering paired with a React client.

Zikr-ul-Quran | github.com/anasqadri-dev/zikr-ul-quran

Java, Spring Boot, React, TypeScript, MySQL

- Developed a full-stack Quran playlist management system with custom ordering, navigation, insertion, deletion, and traversal logic.
- Implemented a custom doubly linked list data structure in Java to power playlist operations instead of relying on built-in collections.
- Built a Spring Boot REST API backed by MySQL, consumed by a React and TypeScript frontend.

Heritage Blog | github.com/anasqadri-dev/heritage-blog

Spring Boot, React, MySQL

- Built a full-stack, server-rendered blog application with post authoring and category-based content organization.
- Designed a MySQL schema for structured content management supporting categorized publishing.
- Implemented server-side rendering with react for a fast-loading, distraction-free reading experience.

File Organizer CLI | github.com/anasqadri-dev/file-organizer-cli

Node.js

- Built a Node.js command-line tool automating file organization by type, date, and custom rule sets.
- Designed a configurable rule engine allowing custom sorting logic without modifying source code.

EXPERIENCE

IT Instructor

Halar Institute of Emerging Technologies — (Dec'22 – Oct'24)

- Delivered hands-on instruction in programming and core technology courses to students building foundational technical skills.
- Guided learners through core computer science and software development concepts using practical, project-based teaching methods.
- Mentored students individually, supporting progression from fundamentals to applied programming exercises.

EDUCATION

B.S. Software Engineering

Sukkur IBA University, Sukkur, Pakistan — 3rd Year

- Relevant coursework: Software Design & Architecture, System Design, Distributed Systems, Software Requirements Engineering, Web Engineering, Computer Networks, OOP, DSA, Operating Systems & Software Quality Engineering.