Mohammad Ali Farhan

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in LinkedIn | ◯ GitHub | ▶ YouTube | Ⓜ Medium | LeetCode

SKILLS

BACKEND
• Java • Go • Python • Spring(Boot, Cloud, Data JPA, AI, Security, AOP, Actuator) • Chi • FastAPI • Node • Express • OTELCollector • Prometheus • Grafana • Jaegar

DEVOPS
• K8s • GCP • Azure • Docker • Render • Github Actions & Workflows

DATA & MESSAGING
• NATS JetStream • PostgreSQL • MongoDB • Redis

MISCELLANEOUS
• Asterisk VoIP • SIP Trunking • WordPress • Shopify • JavaScript • React • Tailwind

EDUCATION

MMMUT
Technical University of Engineering
June 2024 | Gorakhpur, UP, India
MASTER IN COMPUTER APPLICATIONS
Percentage: 77.9% (Hons.)

COURSEWORK
• Software Engineering & Web Tech
• Java, C++ & Python
• OS & Computer Networks
• DBMS, DSA & Distributed Systems
• Artificial Intelligence

RESPONSIBILITIES

FORMER EXECUTIVE MEMBER
At ⌗CSSE & ⌗IEEE-STB at MMMUT

FREELANCER
Delivering low-code & digital solutions for businesses like **Nirvana Beauty**, **Ravisha Continental**, and **Liba Fashions**.

ACHIEVEMENTS
• Represented GyanGrove at **IIM Bangalore** for **GoogleForStartups** Program
• Accomplished solving 420+ questions on **LeetCode** & **Codechef**.

EXTRACURRICULAR
• Led the organization of ⌗ Code Bugger in association with **Coding Ninjas**
• Active involvement in organizing society events like **Technokratos** & **Techsrijan**.

EXPERIENCE, 2+ YOE

RINGG.AI | FOUNDING SOFTWARE ENGINEER
Jun'25 – Present, Full-Time | Bangalore, India
- Led **KSA-compliant infrastructure deployment**, migrating core platform components (**NATS JetStream, Kubernetes workloads, data pipelines**) to Saudi Arabia to meet regional data residency and compliance requirements.
- Built a **Pre-Call API framework** enabling agents to prefetch and decrypt customer data (e.g., via phone numbers), significantly improving response latency and now powering **most enterprise workflows** on the platform.
- I also lead **technical client integrations**, directly working with enterprise clients to design and implement **telephony, SIP, and CRM integrations**, translating business requirements into production-ready systems.
- Architected an **Asterisk-based SIP telephony stack**, eliminating dependency on third-party providers and enabling **global outbound calling** through client-hosted PBX infrastructure.
- Implemented **event-driven Kubernetes autoscaling** using **KEDA** for call workloads and introduced **OpenTelemetry-based standardized monitoring**, enabling vendor-agnostic telemetry pipelines and flexible integrations.
- Remediated **18 critical backend & infra vulnerabilities** during third-party **VAPT audits**, strengthening security and enterprise-grade compliance.

GYANGROVE | FOUNDING SOFTWARE ENGINEER
May'24 – May'25, Full-Time | Bangalore, India
- Lead the architecture and development of an enterprise-grade social-tech platform; built **group membership with granular access control**, **timeslot scheduling with cross-model time aggregation**, the platform's **real-time notification system** and **AOP-based logging and monitoring**
- Engineered a **direct parent-to-school payment system**, enabling secure **zero-intermediary transactions**.
- Implemented **multi-environment CI/CD pipelines** with GitHub Actions for automated Azure deployments and built an **Azure Function** for container-level **PDF-to-PNG conversion**.
- Engineered **RAG pipelines** using Python & OpenAI GPT with **Azure OpenAI integration**; wrote Python integration tests **across 200+ REST APIs** and built a **demo data generation tool** reducing setup time from hours to minutes.

PROJECTS

⌗ LAKEVIEW | ENTERPRISE HOTEL RESERVATION ENGINE
Spring, Redis, Redisson, Python, MySQL, Docker

- Built a high-concurrency booking engine using **Redis distributed locking**, eliminating double-bookings and supporting **5K+ concurrent requests**.
- Engineered a real-time room availability system with **composite B-tree indexes** to reduce search latency, and implemented **role & authority-based access control**, validated with **Pytest load tests**.

⌗ SNAP CIVIC | A CIVIC ENGAGEMENT PLATFORM
Spring, Hibernate Spatial, Python, MySQL, Docker

- Built a **geospatial issue-tracking system** using Hibernate Spatial and JTS, enabling precise **radius-based location queries** and filtering.
- Containerized the app using **multi-stage Docker builds** and implemented **method-level performance monitoring** to track execution time and errors.