MOHAMED FAYAZ T R

Software Engineer | Technical Founder | Open-Source Builder

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PROFILE

Python-focused software engineer with 4+ years building production services, data pipelines, and real-time products. Former CTO of a US SaaS startup; previously a data engineer at Deloitte. I have led teams, released open-source code, and shipped AI-assisted product features. Now seeking to apply that execution experience to empirical AI safety research, with interests in model reliability, evaluation, and human oversight.

TECHNICAL STRENGTHS

Python, Pydantic, PostgreSQL, Apache Airflow, ETL, REST APIs, TypeScript/React, Redis, AWS (ECS, RDS, Lambda), GCP (BigQuery, Cloud Functions), Docker, Terraform, CI/CD, test automation, distributed systems.

SELECTED ENGINEERING WORK

SimpleORM | Open-source Python / PostgreSQL library | Code

- Designed and published an 876-line ORM using Pydantic models, parameterized SQL, automatic schema generation, and DDL used for CI schema-drift checks; prioritized readable, testable code and low dependency overhead.

Lobbi | Co-founder & engineer | Product

- Co-built a live meeting waitroom product with guest-state management, notifications, and Google Meet / Slack integrations; shipped an AI-assisted feature that turns a website into branded room designs.

PROFESSIONAL EXPERIENCE

Founder & Software Engineer | Martian Days 2026–Present

- Run an independent engineering studio delivering internal software and operational automation; maintain public technical writing and open-source work.

Chief Technology Officer | Uniteam EXP Inc. Aug 2024–Feb 2026

- Led a 10-person engineering team developing a mobile-first employee platform from launch to 1,000+ users; owned architecture, technical decisions, delivery, and developer practices.
- Built Python microservices and real-time messaging architecture on AWS with PostgreSQL and Redis; introduced CI/CD, monitoring, automated testing, and infrastructure-as-code.
- Optimized AWS infrastructure spending by approximately 30% while supporting a production platform with 50,000+ daily messages.

Data Engineer | Deloitte Consulting USI Aug 2022–Aug 2024

- Developed 20+ Airflow ETL workflows processing approximately 2 million safety records daily, with error recovery and monitoring; provisioned GCP resources via Terraform.
- Led a three-person UI team and built shared React components for an enterprise workplace-safety platform serving major clients; strengthened test coverage and release quality.

Operations & Product QA | Reputation Arm Mar 2026–Present

- Investigate operational issues, test product workflows, and improve processes for US service-business clients.

TECHNICAL WRITING & RESEARCH INTERESTS

Published: Custom ORM vs. SQLAlchemy; Is AI Making Us Dumber? | Research interests: evaluations of model behavior, oversight, and reliable human–AI systems.

EDUCATION & CERTIFICATION

BCA, Mobile App & Cloud Technology | Mahatma Gandhi University, Kerala | 2019–2022

MBA, IT Management (in progress) | Jain University | Expected 2028

Google Cloud Professional Data Engineer | Google Cloud