

KRUSHANG SHAH

Backend Software Engineer | Python · FastAPI · Distributed Systems

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PROFILE

Backend engineer with 2+ years shipping production systems in healthcare, real estate, and compliance tech. Specialise in FastAPI microservices, concurrency-safe architectures, and async pipelines on Redis, Celery, and Kafka — consistently improving reliability, latency, and data integrity at scale.

EXPERIENCE

Openspace Services | Software Engineer, Backend

Mumbai, India | Dec 2023 – Present

Digital-product engineering firm building web, mobile, cloud, and data platforms for global enterprises and government bodies.

MyHealthMeter — Digital Health Platform (Mobile App + CRM Backend)

Stack: FastAPI · MySQL · MongoDB · Celery · Redis · Kafka · Cloud Storage

- Reduced backend failure rate from **3% to 1%** by rearchitecting MySQL schemas, hardening validation layers, and redesigning API flows across authentication, appointments, and CRM operations.
- Engineered a **Kafka-based retry and reconciliation pipeline** during the CRM migration that automatically recovered failed order syncs via backoff retries and idempotent processing — achieving zero data loss without manual intervention.
- Cut file-upload and notification latency by offloading parsing, SMS/email triggers, and report generation to **Celery + Redis async workflows**.
- Strengthened data integrity across CRM modules by implementing **role-based access control** and secure cloud-storage uploads.
- Accelerated response times on high-traffic endpoints through SQL query optimisation and endpoint-logic refactoring.

HOABL x Xanadu — India's First Online Home-Selling Event

Stack: FastAPI · Redis · MySQL · Node.js · Concurrency Architecture

- Delivered **zero double-bookings** during a live event with thousands of concurrent users by architecting a concurrency-safe microservice governing round-based inventory allocation.
- Maximised conversions across **19 towers x 35 floors** via a round-robin allocation algorithm with dynamic availability bands and dummy-user simulation logic.
- Enabled sub-second state transitions by integrating Redis for live coordination with the Node.js realtime service.
- Minimised round-transition delays at peak load by optimising MySQL queries and reducing lock contention.

WeProcess — Compliance Management Portal

Stack: FastAPI · MySQL · Redis · Celery · Flower · ReactJS (integration)

- Built compliance-tracking backend powering **50+ government-mandated regulatory workflows**.
- Improved API performance **25–30%** by introducing Redis caching on high-frequency endpoints.
- Enabled reliable async execution for scheduled compliance jobs via Celery + Flower with full observability.
- Cut frontend integration time by **~20%** by shipping clean, predictable REST contracts consumed by the React UI team.

End-to-End Ownership (cross-project)

- Independently delivered production systems spanning architecture, development, testing, deployment, and monitoring — including Docker-based microservices, Nginx + SSL configuration, and server performance tuning.
- Diagnosed and resolved cross-stack issues through deep-dive debugging across backend, database, and infrastructure layers.

EDUCATION

Universal College of Engineering, Vasai | University of Mumbai | B.E., Computer Engineering

May 2023

- Relevant coursework:** Data Structures & Algorithms, Operating Systems, DBMS, Applied Data Science, Big Data Analytics.
- Technical Head, NSS Unit** — led a 100-member team driving all technical initiatives of the unit.

Maharashtra State Board | Higher Secondary Certificate (HSC)

June 2018

TECHNICAL SKILLS

Languages	Python, SQL
Backend	FastAPI, REST, Microservices
Databases	MySQL, MongoDB
Caching & Async	Redis, Celery, Kafka
DevOps & Infra	Docker, Nginx, Linux, SSL
Cloud & Tools	AWS, Git, Flower, Postman

ACHIEVEMENTS

- Rising Star of the Year** — selected from **100+ peers** at Openspace Services for ownership, delivery impact, and technical depth.
- Shipped mission-critical systems serving **thousands of active users** across healthcare, real-estate, and compliance platforms.

INTERESTS

Backend architecture · performance, scalability & concurrency · AI-driven backend development · travel, cooking, photography.