

# MUHAMMAD SAFIULLAH KHAN

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## PERSONAL SUMMARY

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Software engineer with expertise in problem-solving, data structures, algorithms, object-oriented paradigms, databases, and system design, with 250+ LeetCode challenges solved and ongoing work on scalable applications.

## TECHNICAL SKILLS

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|--|----------------------------|
| <b>Programming Languages:</b>              | Python, JavaScript         |
| <b>Frameworks &amp; Libraries:</b>         | FastAPI, Flask, React      |
| <b>Databases:</b>                          | PostgreSQL, MongoDB, Redis |
| <b>Version Control &amp; Environments:</b> | Git, Linux, Docker         |

## EXPERIENCE

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**Fantech Labs: Full Stack Developer Intern** Jul 2025 – Sep 2025

Collaborated with senior engineers in an Agile, test-driven environment to deliver scalable full-stack solutions.

Main Project: **Enterprise Operations Dashboard**

Engineered a full-stack enterprise platform digitizing internal software house workflows for 200+ users, boosting operational productivity by 70%.

- Built async Flask services with Redis pub/sub for real-time updates, background processing, and notifications.
- Developed automated MySQL-driven analytics and reporting pipelines with modular React visualizations.
- Delivered secure, containerized deployment within isolated client infrastructure ensuring full data privacy.

## PROJECTS

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**University Scheduler Platform** Aug 2025 – Oct 2025

Deployed scheduling platform for one of Pakistan's largest university, enabling timetable access for students and staff.

- Built FastAPI backend with REST APIs for CSV upload, parsing, and PostgreSQL integration.
- Developed React admin dashboard for handling CSV, versioning, visibility, and announcements.
- Optimized bulk inserts (1.5k+ rows in 1–2s) with indexed search, and deployed via Docker with CI/CD.

**Fintal** Apr 2025 – Jun 2025

Fintal is a fintech app providing secure multi-role banking, automated billing, and real-time payment processing.

- Implemented ACID-compliant transactions with real Stripe API integration.
- Built secure backend in Core Java with BCrypt authentication, CSV bill automation, and MVC architecture.
- [Hashnode Article] • [Detailed Video Explanation]

## EDUCATION

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**BS Computer Science**, COMSATS University Islamabad

Sep 2023 – Present

CGPA: 3.95 / 4.00

## ACHIEVEMENTS & CERTIFICATIONS

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**DSA Bootcamp by Safi** — Mentored juniors through a YouTube playlist on DSA in Urdu.

**Technical Lead, CSS Society** — Delivered hands-on web dev and CS workshops attended by 100+ students.

**Campus Ambassador: Devsinc** — Promoted Devsinc outreach and student engagement at COMSATS.

**CS50x: Harvard University** — Completed 10 problem sets and final project.

**Meta Certified: Python & React** — Certified in React, Python, and software engineering practices used at Meta.