Akash Ahmad Malik

Full Stack Software Engineer
B.Tech - Computer Engineering, New Delhi

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GitHub | LeetCode | Portfolio

EDUCATION

- **Bachelor of Technology (Computer Engineering)** — *CGPA: 7.55 / 10 (75.5%)*
Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi — Nov 2022 – Aug 2026
- **Senior Secondary (Class XII)** — *Percentage: 86.6%*
JK Board of School Education — Nov 2019 – Dec 2021
- **Secondary (Class X)** — *Percentage: 93.6%*
JK Board of School Education — Nov 2017 – Nov 2019

PERSONAL PROJECTS

- **DriftPro – Paytm for Desktop** — *Jan 2025 – Present*
Self-Guided Full Stack Project — **Link**
  - Developed a secure full-stack digital payment platform using Next.js, PostgreSQL, and Prisma in a Turborepo monorepo architecture.
  - Implemented OAuth authentication, wallet transactions, and Redis-based caching for high performance.
  - Dockerized the app and automated CI/CD using GitHub Actions.
  - Simulated bank webhooks and real-time transaction notifications for a production-grade experience.

- **Apple Scab Estimation Using CNN and Grad-CAM** — *Aug 2025 – Present*
Minor Project (Semester 7) — **Link**
  - Implemented a CNN model achieving 90% accuracy in detecting apple scab disease from leaf images.
  - Used Grad-CAM visualization, data augmentation, and hyperparameter tuning for improved generalization.

- **MediumPro – Publishing Platform** — *Dec 2024 – Jan 2025*
Self-Guided — **Link**
  - Developed a content publishing platform using React.js and Tailwind CSS with a Hono + Prisma backend.
  - Optimized DB schema and API routes for scalability and efficient content rendering.

- **College-Based Database Management System** — *Mar 2024 – May 2024*
Minor Project (Semester 3) — **Link**
  - Built a role-based admin and staff management system using React, Express, and MongoDB.
  - Designed normalized DB schema and ER diagrams for attendance, marks, and schedule management.

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Python, Java, JavaScript, SQL
- **Frameworks & Libraries**: React.js, Node.js, Express.js, Next.js, MEAN Stack, Tailwind CSS
- **Systems & OS**: Linux Environment, System Programming, Multithreading, Parallel Processing
- **Databases**: MySQL, PostgreSQL, MongoDB, Database Normalization, ER Diagrams, Prisma ORM
- **Cloud & DevOps**: Docker, AWS (EC2, S3), Redis, GitHub Actions CI/CD
- **Developer Tools**: VS Code, Git, Ubuntu Linux, Monorepos

RELEVANT COURSEWORK

- **Core CS**: Data Structures & Algorithms, Operating Systems, Computer Networks, Compiler Design, DBMS
- **Other Courses**: Shell Scripting, Embedded Systems, Software Engineering

ACHIEVEMENTS / HONORS

- **Foundation for Excellence (FFE) Scholar**, Selected as an FFE Scholar, Class of 2022. — *2022*
- **JEE Mains Qualified**, Scored 95.11 percentile among 1M+ candidates. — *2022*
- **JEE Advanced Qualified**, Secured AIR 26,380 among 200k+ candidates. — *2022*

EXTRACURRICULAR ACTIVITIES

- **Competitive Programming**, Solved 600+ DSA problems across major coding platforms. — *Ongoing*
- **Inter-Departmental Cricket Tournament**, Team Member (Runner-Up), Faculty Cricket League. — *2023*