

Mohammed Sarwar Khan

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EDUCATION

Lords Institute of Engineering and Technology

Hyderabad, India

B.E. in Information Technology

- **Concentrations:** Full Stack Development, AI, MERN Stack, DevOps
- **GPA:** 7.96/10

Related Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering.

Experience

Ziegler AeroSpace

Remote

Full-Stack Developer Intern (4 Months)

Dec 2024 – Mar 2025

- Built a product catalog to streamline categorization, improving **accessibility** and product discovery.
- Implemented key marketplace features including **product listing, search, and management** using **Zustand** for state management, enhancing usability and ensuring smoother operations.
- Developed **reusable components** adopted across multiple projects, reducing code duplication and resulting in faster development cycles with **consistent functionality**.

Coding Jr

Remote

Full-Stack Developer Intern (3 Months)

Jul 2024 – Sep 2025

- Built **responsive** landing pages optimized for all devices, ensuring smooth **user experience** and **accessibility**.
- Solved numerous **bugs** and issues while revamping UIs across **12+ platforms**, enhancing performance and user experience.
- Implemented performance optimizations using **debounce and Redux**, and contributed to an offline software project with **Electron.js**.

Projects

Brain Bolt

Remote

Team Lead

May 2025 – Jun 2025

- Engineered Node.js microservices, **Redis caching** and MongoDB, cutting API latency from **1100ms to 240ms**.
- Integrated Gemini/Llama **APIs for NLP-driven** quiz generation, spaced repetition, and adaptive learning paths, applying advanced coursework in computer science and engineering.
- Deployed using Docker on **AWS EC2** with CI/CD pipelines via GitHub Actions; ensured consistent builds and smooth rollouts during testing, emphasizing interest in producing clean and efficient code.

WebLenses

Remote

Solo Developer

Mar 2025 – Apr 2025

- Automated **QA workflows** by integrating **Gemini API** with **Node.js/Express backend**, reducing manual testing time by **40%** through **AI-driven anomaly detection** in DOM snapshots.
- **Visualized complex DOM structures:** Transformed DOM debugging through **D3.js visualizations** and **React-Virtuoso**, handling **10k+ elements** with **smooth performance**.
- **Secured cross-service data flow:** by architecting **JWT** authentication with **Zod** validation, ensuring **100% penetration test pass rate** for all snapshot data transfers between **services**.

FlowCare

Remote

Team Lead

Dec 2024 – Jan 2025

- Built an **AI-powered** menstrual health platform using **React, Tailwind CSS, Recoil, and Framer Motion**, Achieved **Lighthouse accessibility score >90** via mobile-first redesign
- Implemented **Zod** for data validation and secured credentials with **Bcrypt and JWT**, ensuring 100% data protection in **penetration tests**.

Achievement's

HackRevolution 2025 Hackathon Winner

Hyderabad

Team Lead

05-Jan-2025

- Secured **First Place** at HackRevolution 2025 Hackathon, competing against **280+ teams**.

HackForge 2025 Hackathon Winner

Hyderabad

Team Lead

25-Jan-2025

- Secured 1st place by showcasing technical expertise with 95% feature completion and strong real-world impact.

SKILLS

Programming Languages: C, C++, Python, TypeScript

Frontend Development: React.js, Next.js

Backend Development: Node.js, Express.js, FastAPI, RESTful APIs

Database Management: MongoDB, PostgreSQL, Prisma

Tools & Technologies : AWS, Docker, POSTMAN, Git, GitHub, Zod, Bcrypt, JWT, WSL, BASH, Vercel, NeonDB