Farhaan Khan

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LinkedIn | GitHub | Portfolio

SUMMARY

Full Stack Developer with expertise in system design and compiler construction. Developed educational tools adopted by academic institutions and enterprise software improving operational efficiency by 80%. Strong background in TypeScript, Python, and low-level systems programming.

EDUCATION

Vellore Institute of Technology   Vellore, India
Bachelor of Technology in Computer Science — GPA: 9.15/10.0 (Top 10%)   *2022 – 2026*
Merit Scholarship recipient for academic excellence   *3×*

PROFESSIONAL EXPERIENCE

Elektromag™   Remote - India
Software Developer   *January 2025 – April 2025*

Designed purchase order system handling 50+ daily transactions, reducing processing time from 4 hours to 45 minutes   *80% efficiency gain*

Automated Excel reporting used by 15+ team members, eliminating manual data entry errors   *Company-wide adoption*

Imaginate XR   Hyderabad, India
Computer Vision Research Intern   *June 2024 – July 2024*

Optimized 3D reconstruction pipeline serving 10K+ points per frame   *30% faster rendering*

Reduced model training time by 25% through TensorFlow optimization

TECHNICAL PROJECTS

C Compiler Visualizer   2024
Educational tool demonstrating all compilation phases to 200+ students annually   *Adopted by VIT faculty*

Integrated chatbot answering 50+ common compiler questions with 85% accuracy

Generates x86 assembly and executable files from C source code

Secure File Share System   2025
Implemented JWT authentication handling 100+ concurrent users   *10ms response time*

Reduced storage costs by 40% through AWS S3 lifecycle policies

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Python, Java, C++, Go, x86 Assembly

Systems: Compiler Design, Computer Architecture, Optimization

Web: React, Node.js, REST APIs, WebSockets, JWT Authentication

Tools: Git, Docker, AWS, TensorFlow, Unity3D