

Farhaan Khan

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SUMMARY

Machine Learning Engineer focused on computer vision and quantum-inspired algorithms. Experienced in building scalable backend systems, full-stack products, and developer tools using Python, PyTorch, C++, and Docker. Proven ability to lead research-driven projects from concept to **IEEE journal publication** and manage cross-functional engineering teams.

EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science and Engineering (Blockchain Technology)

Vellore, India

Sept. 2022 – May 2026

EXPERIENCE

Alfaleus Tech (Med-tech startup)

Software Developer

Hyderabad, India

Mar. 2026 – Present

- Designed and deployed multiple production-grade full-stack web applications and mobile apps serving real users across the healthcare domain.
- Built and maintained internal tooling to streamline operations across engineering and product teams.
- Managed and mentored a team of interns, overseeing code reviews, task allocation, and onboarding.
- Drove architectural decisions for scalable systems across the full product lifecycle.

Alfaleus Tech (Med-tech startup)

Software Developer Intern

Hyderabad, India

June 2025 – Aug. 2025

- Led backend development for an internal platform (Flask, PostgreSQL) supporting 3+ production tools.
- Collaborated cross-functionally with 4 teams to drive system integration and architectural decisions.

Imagine XR (AR/VR simulations)

Computer Vision Research Intern

Hyderabad, India

June 2024 – July 2024

- Optimised a 3D reconstruction pipeline using OpenCV and PyTorch, reducing rendering latency by 30%.

PROJECTS

Kairo: AI Career Co-pilot for Students | Python, Flask, PostgreSQL, Groq, Whisper

2026

- Built and deployed a full-stack AI platform conducting structured career interviews, generating JD-tailored ATS-optimised resumes, and auditing GitHub/LinkedIn presence; live at kairo.up.railway.app.
- Engineered a **Chrome extension** (Manifest V3) supporting **9 job portals** that auto-extracts JDs and generates resumes without leaving the page.
- Implemented voice mock interviews via Groq Whisper STT with scored reports, and a credit ledger with referral and campus ambassador reward tiers.

Lenstagram: Self-Hosted Face Recognition | FastAPI, InsightFace, FAISS, Backblaze B2

2026

- Built and deployed a production face recognition platform at lenstagram.com; users upload a photo dataset, share a link, and anyone can find all their photos via selfie search.
- Architected a scalable storage pipeline with **Backblaze B2** for bulk image/embedding storage and FAISS indexes, achieving **sub-5ms search latency** across 16k+ faces with in-process caching.
- Implemented Google Drive dataset import, OTP-based auth, on-demand thumbnail generation, and a Razorpay-integrated licensing system for self-hosted downloads.

Quantum-Enhanced Deepfake Detection | Python, PyTorch, Qiskit, QAOA

2025

- Developed a quantum-hybrid framework improving deepfake detection accuracy by **2.5 percentage points** over classical baselines on FaceForensics++.
- Designed a QAOA-based feature selection module and quantum-inspired attention mechanism to capture subtle manipulation artifacts.
- Achieved a **45% reduction in calibration error** and improved forensic interpretability using Grad-CAM.

Visor: Multi-Language Code-to-Flowchart Visualization | TypeScript, Tree-sitter, Mermaid.js

2025

- Built a VS Code extension with **1k+ downloads** and **60+ GitHub forks** for real-time flowchart generation.
- Implemented bidirectional navigation between source code and flowcharts, improving debugging efficiency.
- Integrated cyclomatic complexity analysis with visual indicators for code quality assessment.

PUBLICATIONS

Farhaan Khan, Aditya Sareen, Akash Suresh Kumar, M. Bhuvaneswari, “A Quantum-Hybrid Framework for Enhanced Deepfake Detection: Integrating QAOA-Based Feature Selection With Quantum-Inspired Attention Mechanisms,” *IEEE Access*, vol. 14, 2026.

DOI: [10.1109/ACCESS.2026.3659021](https://doi.org/10.1109/ACCESS.2026.3659021)

CERTIFICATES

AWS Certified Cloud Practitioner

KEY ACHIEVEMENTS

- Top 10 in stream with a CGPA of 9.09 / 10.
- 3× Merit Scholarship recipient for academic excellence.
- **Visor** reached **1k+ users** and **60+ GitHub forks**, demonstrating global developer adoption.

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, JavaScript, Solidity

Libraries & Tools: PyTorch, TensorFlow, OpenCV, FAISS, InsightFace, Qiskit, Flask, FastAPI, React, GraphQL, Docker, AWS, Backblaze B2

Databases: PostgreSQL, MongoDB, SQLite, Redis

Key Areas: Computer Vision, Deep Learning, Quantum-Inspired ML, Full-Stack Development, System Design, Git