

MUHAMMAD FATIK BIN IMRAN

AI ENGINEER | FULL STACK DEVELOPER

✉ fatikbinimran@gmail.com

🌐 fatikimran.github.io

☎ +92-323-5894358

📍 Islamabad, Pakistan

SUMMARY

A self-driven Computer Science student with hands-on experience in **full-stack development & AI engineering**. Proven ability to design and optimize algorithms (up to 7.3× speedup), build scalable AI-driven applications, and lead cross-functional teams. Seeking **AI Engineering** and **Software Development internships** to apply expertise in modern AI tools, software development, and problem-solving.

RESEARCH EXPERIENCE

- **Unstable Aircraft Approach Detection** | Ongoing 2026 (Team of 3)

Co-developed a leakage-safe ADS-B detection pipeline (AUROC 0.8923) and physics-constrained GenAI augmentation (+44% precision, +25% F1), reducing false alarms for pilot/ATC decision support. Under peer review for IEEE IES Generative AI Challenge 2026.

- **Parallel Triangle Counting using openmp and simd** | Spring 2026 (Individual Project)

Achieved up to 7.3× speedup (630% improvement) in parallel triangle counting through SIMD + OpenMP performance engineering, validated on large-scale SNAP graph datasets.

WORK EXPERIENCE

- **UpTicket – SaaS Support AI Assistant** | Ongoing 2026 (Individual Project)

Building an end-to-end AI support operations platform with FastAPI, React, SQLite, scikit-learn, sentence-transformers, and FAISS that classifies tickets by category, priority, and sentiment, retrieves relevant knowledge-base content, and generates draft responses through an internal dashboard workflow.

- **Client Orbit – AI Support Assistant** | April 2026 (Individual Project)

Designed and shipped a production-style AI support assistant that generates policy-aware replies, extracts and stores leads from live conversations, enforces escalation guardrails, and rate-limits API traffic to prevent abuse. Built with Next.js, Gemini, Supabase, Upstash Redis, and deployed on Vercel.

- **AI Social Media Content Generator** | December 2025 (Individual Project)

Built an intelligent web app using HuggingFace's Llama 3.2 and a serverless Vercel backend to generate tailored social media captions and hashtags per platform in seconds

Live: ai-social-content-generator.vercel.app

- **Air Traffic Control Simulation** | Spring 2025 (Led a Team of 2)

Simulated a real-time air traffic control system with concurrent aircraft management using C++ multithreading and mutex locks for conflict detection.

- **Connect - Event Discovery Platform** | Fall 2025 (Led a Team of 3)

Built a full-stack event platform with synchronized Android and Java desktop apps, managing the entire UI/UX design and development lifecycle

- **Instagram Clone** | Fall 2025 (Led a Team of 2)

Developed a fully-featured Instagram replica with authentication, posts, stories, likes, direct messaging, audio/video calls, real-time feeds, etc.

- **TravelEase – Multi-Portal Management System** | Spring 2025 (Led a Team of 2)

Built a desktop application for travelling management with 4 user portals (Traveler, Organizer, Service Provider, Admin) using C# and SQL with role-based access controls.

- **GitLite – Version Control System** | Fall 2024 (Led a Team of 3)

Implemented a lightweight version control system using advanced tree data structures (BST, B-Tree, Merkle Tree) to manage .csv file versioning via console interface.

TECHNICAL SKILLS

Programming: C++, Python, Java, JavaScript, SQL

Web: HTML/CSS, React, Node.js, XML

AI: PyTorch, scikit-learn, HuggingFace, ML, GenAI, Prompt Engineering

Tools: Git, Docker, Figma, Notion, Canva, Android Studio, VS Code, Jupyter, Colab, Kaggle, etc.

SOFT SKILLS

- Excellent English communication skills
- Proven record of leading teams effectively
- Out-of-the-box problem-solving skills

CERTIFICATIONS

- Google Soft Skills Certificate – Issued by Google
- Green Ambassador – World Wildlife Fund

EDUCATION

- **Bachelor of Science in Computer Science** (Current Semester: 6)

FAST NUCES Islamabad | Expected Graduation: August 2027

CGPA: 3.53 (Semester 1-5)

- **A Levels**

Future World School H-11/4 Islamabad | 2021-2023

3 A's in Computer Science, Mathematics & Physics (Other Coursework: Further Mathematics & Sociology)

- **IGCSE**

Roots Millennium Flagship Campus I-9/3 Islamabad | 2018-2021

8 A's (of which 6 A*s) in Additional Mathematics, Computer Science, Mathematics, Physics, Chemistry, and more