Umm-e-Habiba Imran

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Summary

Computer Science student and Software Developer with experience in full-stack development, backend APIs, AI-powered products, and conversational voice AI. Skilled in LLM-integrated pipelines, STT/TTS workflows, and scalable backend services using Python, FastAPI, JavaScript, and SQL.

Experience

Software Developer *(Promoted from AI Intern)*, Finova Solutions *April 2026 – Ongoing*

- Contributed in building full-stack SaaS features across dashboard, backend APIs, and configuration flows for AI-powered voice and call evaluation products.

AI Intern, Finova Solutions *February 2026 – April 2026*

- Developed a production voice AI agent pipeline handling call input, LLM processing, and TTS output for real-world phone-call automation workflows.

AI Intern, SPS-NASTP *July 2025 – Sept 2025*

- Built **GreenKeyper**, a conversational AI app using IBM Watsonx AI Assistant, covering chatbot logic and assistant configuration for real-world interaction design.

Education

Bahria University *Expected Dec 2027*
BS in Computer Science CGPA: 3.87

Skills

Languages: Python, JavaScript, C++, SQL, Assembly
Frameworks & Libraries: FastAPI, NestJS, React, NumPy, Pandas
AI & Voice Technologies: LLM Integration, Prompt Engineering, STT, TTS, Deepgram, ElevenLabs, IBM watsonx
Backend & Infrastructure: REST APIs, WebSockets, Twilio, LiveKit, Docker
Databases: PostgreSQL, Supabase
Tools: Git, GitHub, VS Code
CS Core: Data Structures & Algorithms, OOP, Operating Systems

Projects

Awaaz Labs – AI Voice & Call Intelligence Platform *FastAPI, NestJS, LiveKit, Twilio*

- Contributed in building a multi-product AI voice platform with a voice agent module (STT/LLM/TTS via LiveKit and Twilio) and a call QA module (QualiCall) for LLM-based call evaluation, scoring, and report generation.
- Helped develop backend APIs, async job pipelines, call upload workflows, org-level API key management, and frontend dashboard integration across both products.

EarthScan AI – Satellite Building Damage Classifier *Python, TensorFlow, Flask, OpenCV*

- Trained CNN and hybrid CNN+KNN models on 2,799 paired pre/post-disaster satellite images (xBD/xView2 dataset) for 4-class damage classification, achieving up to 69% accuracy across 5-run evaluation.
- Built a Flask web app with image upload, model inference, confidence visualization, and a visual-change heatmap.

VertexVoyage – Pakistan Shortest Path Visualizer *C++, SFML, Dijkstra's Algorithm*

- Built an interactive C++ desktop app using SFML that visualizes Dijkstra's shortest path on a real Pakistan map with multi-stop routing, adjacency list/matrix, and real-time path rendering.

Awards & Certificates

Prime Minister's Laptop Scheme 2025 – Selected Recipient, Phase IV
CodeQuest – 2nd Position, GDGOC x YOTA
Merit Scholarship – 1st Position in 5th Semester, 2nd Position in 3rd Semester; 3rd Position in 2nd Semester
IBM watsonx Orchestrate & Assistant – Technical Sales Intermediate