Rai Tabish

raitabish.com | □+92-303-9222567 | M raimuhammadtabish@gmail.com | in rai-muhammad-tabish

Skills __

- Python | Java | C++ | Solidity | Go | SQL | Bash | HTML | CSS | FastAPI | React | Node.is | Express | Unity | ASP.NET
- PyTorch | OpenCV | Llama (2/3) | LangChain | Agentic AI | Deep Learning | NLP | GenAI | Statistical Modeling | Unsupervised Learning | PyMC3 | MLOps
- Docker | Git | CI/CD | Airflow | AWS | Azure | Web Scraping | OpenAl APIs | ETL Pipelines | Figma | Oracle | MongoDB | Neo4j | NoSQL | Blockchain | Kali Linux | OOP | Unit Testing
- English | Urdu | Punjabi

AI Developer

Work Experience

Technetium Labs, Islamabad

• Working as an AI Developer focused on diffusion models, building robust AI pipelines, using Docker for scalable deployment, and developing FastAPI endpoints to integrate features into large-scale applications.

Technology Program Intern

CS Lab Demonstrator

Computer Vision Engineer

• Designed, Developed, and Deployed an in-house Learning Management System using the MERN stack (MongoDB, Express.js, React, Node.js) and AWS services, worked on automating the lecture delivery with AI avatars and integrating custom LLM.

Knodemy, Islamabad

Collaborated with students to identify and address distractions by integrating a compiler and Scratch programming environment, thereby improving user engagement and the overall learning experience.

 Conducted and managed weekly lab sessions for over 50 students in the Programming Fundamentals (C++) course, ensuring a strong grasp of core programming concepts in a Linux environment.

FAST-NUCES, Islamabad

AVVA Dynamics, California

• Received consistently positive feedback for communicating complex topics and providing personalized support — as a result, was invited to continue in the Fall session.

Designed and Developed an Advanced Surveillance System integrating thermal cameras, telescopes, and standard cameras using OpenCV, and implementing object detection using YOLO.

• Led a development team for the Coin612 camera project, coordinating the seamless integration of hardware and software components. Ensured project milestones were met on time, resulting in a robust and reliable surveillance solution.

Education			
Bachelor of Computer Science	FAST NUCES	Islamabad, Pakistan	09/2021 - 05/2025
Projects			
DataKaleidos: GraphRAG for Data Exploratior (FYP)	n <u>LinkedIn</u>		06/2024

 Automated the creation of a dynamic knowledge graph using Llama 3, built a multi agentic system to scrape and generate useful data for LLM to generate knowledge graphs in Neo4j.

 Built a scalable ETL pipeline leveraging Apache Airflow to automate data extraction, transformation, and loading, streamlining data integration.

Developed GraphRag to provide natural language querying capabilities, with the knowledge graph serving as its core data backbone.

LinkedIn

Multi-agent Customer Support Automation

• Developed an AI-powered customer support pipeline using CrewAI, integrating task-based agents for inquiry resolution and quality assurance.

03/2023 - 01/2024

03/2024

01/2025 - Present

09/2024 - 01/2025

01/2022 - 03/2023

Blockchain Assistant

• Developed a lightweight, CPU-optimized assistant using a quantized Llama 2 model. The model is fine-tuned on a Blockchain book to answer domain-specific questions efficiently on devices without GPU support.

GitHub

GitHub

CarKho

 Developed a car advertisement comparison platform using React that aggregates listings from multiple sources, allowing users to view and compare all available options in one place.

GitHub

SocioSphere: Society Management System

- Engineered an interactive Society Management System with ER diagrams, using SQL, Oracle, ASP.NET, CSS, and HTML.
- Integrated robust database concepts and advanced web programming to optimize society management and administration efficiency, following established design patterns.

Real-time Image Detection and Recognition

- Built a real-time face detection and recognition system using OpenCV and face_recognition, capable of identifying known faces from webcam input.
- Optimized performance with frame resizing and dlib's HOG-based model, with optional GPU-accelerated CNN support for enhanced accuracy.

Activities & Achievements

- Volunteer: Assisted Knodemy in delivering computer lessons to underprivileged students in remote areas of Pakistan. (09/2024-01/2025)
- Dean's List FAST NUCES, Islamabad (Spring 2025)
- Organizer: Led the organization of the 2023 university orientation for the incoming batch. (10/2023)
- Best Bait Bazi: Awarded by Bazm-e-Paigham, Rawalpindi, with over 50+ colleges participating. (01/2019)
- Best Urdu Debater: Inter-college competition on the topic "Education Builds the Nation." (05/2013)
- Head of Sponsorships- FAST Computing Society: Led the sponsorship team for computing events and coordinated with companies for event collaborations. (01/2022-08/2023)

Head Urdu- FAST Literary Society: Oversaw the planning and execution of Urdu literature events. (08/2021-06/2023)

Certifications

AWS Essentials Specialization	Amazon Web Services (AWS)	In Progress
Generative AI with LLM	Coursera	02/2025
Machine Learning Specialization	Stanford	In Progress
Understanding Microsoft Azure	DataCamp	08/2024
Neo4j Fundamentals	GraphAcademy	08/2023
Intermediate SQL	DataCamp	07/2024
Google AI essentials	Google	04/2024
Multi AI agents	Google	04/2024

11/2024

04/2024

12/2022

03/2024

GitHub