Humza Tareen

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Work Experience

Software Engineer *Sep 2024 – Present*
Turing Remote

- **Software Engineer (July 2025 – Present):** Architected scalable, AI-powered agentic automations using Python, FastAPI, and RAG on GCP. Accelerated development by integrating AI-native tools (**Cursor, OpenAI Codex, Claude Code**) to optimize microservices.
- Engineered backend services with PostgreSQL and Redis to automate end-to-end model evaluation pipelines.
- **Pod Lead (Mar 2025 – July 2025):** Led a globally distributed team of 10+ AI Trainers, implementing Agile methodologies to manage high-priority GenAI benchmarking and QA for APAC clients.
- **LLM Python Developer (Sep 2024 – Mar 2025):** Developed domain-specific LLMs (RLHF, reasoning) for Apple, Meta, and Bytedance; enhanced capabilities via custom Code Interpreter development.

Software Engineer *Feb 2024 – July 2025*
Royal Cyber Inc. Remote

- Co-developed 'RC AI OPS' GenAI agent using LangChain, automating error resolution to improve backend efficiency by 50%.
- Fine-tuned Llama models on AWS Bedrock to power domain-specific copilots for financial services clients.
- Architected GenAI integrations for Fortune 500 clients using Mulesoft, IBM & Salesforce iPaaS platforms.

Deep Learning Researcher *Sep 2023 – May 2024*
Deep Learning Lab, NCAI Islamabad, Pakistan

- Authored the award-winning (1st Prize) "OptiGuard" system for glaucoma detection (see Publications below).
- Developed novel Computer-Aided Diagnosis (CAD) systems using PyTorch and Hugging Face, achieving state-of-the-art performance in medical imaging tasks.

Publications

OptiGuard: Generalized, Attention-Driven & Explainable Glaucoma Classification
47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 2025

- **Authors:** Syed Safi Ullah Shah, Muhammad Huzaifa, **Humza Tareen**, Muhammad Naseer Bajwa
- Developed a state-of-the-art CAD system for glaucoma detection using Retinal Fundus Images (RFI), achieving robust generalization on SMDG-19 and G1020 datasets.
- Integrated Explainable AI (XAI) features to provide visual and quantitative transparency, enhancing trust for clinical professionals.

Education

National University of Sciences And Technology (NUST) *May 2024*
B.Sc. in Computer Science Islamabad, Pakistan
Majors in Artificial Intelligence & Deep Learning

Skills & Certifications

AI/ML: Agentic Systems, RAG, RLHF, GenAI, Model Evaluation, PyTorch, LangChain

Backend & Databases: Python, FastAPI, Microservices, PostgreSQL, Redis, SQL, APIs

Cloud & DevOps: Google Cloud Platform (GCP), Docker, CI/CD, Kong Gateway

Certifications: IBM Certified Cloud Automation Sales Consultant, Microsoft Power Platform Fundamentals PL-900