Humza Tareen

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Work Experience

Software Engineer   *Sep 2024 – Present*
Turing   Palo Alto, CA (Remote)
- **Software Engineer (Jul 2025 – Present):** Architected AI-powered agentic automations using Python, FastAPI, and RAG on GCP; built backend services with PostgreSQL and Redis for model evaluation pipelines.
- **Pod Lead (Mar – Jul 2025):** Led a distributed team of 10+ AI Trainers using Agile methodologies for 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**; built custom Code Interpreter tools.

Software Engineer   *Feb 2024 – Jul 2025*
Royal Cyber Inc.   Naperville, IL (Remote)
- Co-developed **'RC AI OPS'** GenAI agent using LangChain, automating error resolution and improving backend efficiency by **50%**.
- Architected GenAI integrations for **Fortune 500 clients** using Mulesoft, IBM & Salesforce iPaaS platforms.
- Built AI agents for Middleware (IBM ACE/MQ, Salesforce OMS), reducing developer workloads by **60%**; fine-tuned Llama models on AWS Bedrock for financial services copilots.

Deep Learning Researcher   *Sep 2023 – May 2024*
National Center of Artificial Intelligence (NCAI)   Islamabad, Pakistan
- Authored the award-winning (**1st Prize, SEECS Open House**) "OptiGuard" system for glaucoma detection (see Publications).
- Developed novel CAD systems using PyTorch and Hugging Face, achieving state-of-the-art performance in medical imaging.

Publications

OptiGuard: Generalized, Attention-Driven & Explainable Glaucoma Classification
IEEE Engineering in Medicine and Biology Society (EMBC), 2025   ieeexplore.ieee.org/document/11253669
- S. S. U. Shah, M. Huzaifa, **H. Tareen**, M. N. Bajwa
- State-of-the-art CAD system for glaucoma detection with Explainable AI (XAI), achieving robust generalization across multiple benchmark datasets.

Education

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

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