

# Humza Tareen

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## Work Experience

### Software Engineer

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Sep 2024 – Present

Palo Alto, CA (Remote)

- **Software Engineer (Jul 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 – Jul 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

Royal Cyber Inc.

Feb 2024 – Jul 2025

Naperville, IL (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.
- Built AI agents for Middleware Technologies (IBM ACE/MQ, Salesforce OMS), reducing developer workloads by **60%**.

### Deep Learning Researcher

National Center of Artificial Intelligence (NCAI)

Sep 2023 – May 2024

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

47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 2025  
ieeexplore.ieee.org/document/11253669

- **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)

B.Sc. in Computer Science – Majors in Artificial Intelligence & Deep Learning

Jun 2024

Islamabad, Pakistan

## Skills & Certifications

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**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