

Muhammad Qasim Ali Rasheed

AI and Software Engineer

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AI and Software Engineer with production experience across healthcare and engineering domains. Proven expertise in developing HIPAA-compliant medical copilots and scalable RAG systems, alongside backend services and full-stack products. Proficient in end-to-end delivery from system design to containerized deployments on Azure with CI/CD pipelines.

EXPERIENCES

AI Engineer at Mobipixels

June 2024 – July 2025

- Developed end-to-end, HIPAA-compliant GenAI copilot enabling clinicians to generate psychoeducational assessment reports from clinical data, PDFs and images reducing creation time from several hours to minutes.
- Trained custom adapters for each clinician to mimic writing styles and report structures, ensuring highly personalized outputs.
- Deployed containerized FastAPI microservices on Azure with LLMOps best practices and built React front ends with MySQL + Docker CI/CD. Ensured full regulatory compliance with HIPAA standards for data privacy and security throughout the pipeline.

Software Engineer at Exelient Technologies

Sep 2023 – May 2024

- Contributed across the SDLC by developing, testing, and maintaining software solutions, and played a key role in integrating Pakistan's first NDI-based broadcast network under challenging timelines.

SKILLS

- Programming/Languages:** Python, JavaScript, C++, SQL, MATLAB | **AI/ML:** RAG, LangChain, LlamaIndex, OpenAI API, Tensorflow, Scikit-learn, MLflow, CV(OpenCV) | **Data & Visualization:** Pandas, NumPy, Grafana, Matplotlib
- Cloud/DevOps:** Microsoft Azure, Docker, CI/CD, Vercel, Git | **Databases:** MySQL, InfluxDB, ChromaDB | **Web Frameworks:** React, Next.js, Node.js | **Compliance:** HIPAA
- Methodologies:** Agile, Scrum | **Soft Skills:** Problem Solving, Leadership, Adaptability, Creativity

EDUCATION

MS SOFTWARE TECHNOLOGY

Linnaeus University, Växjö
2025

BS COMPUTER ENGINEERING

CGPA: 3.43/4

NUTECH, Islamabad
2019-2023

PROJECTS

Condition Monitoring and Diagnostics Using Machine Learning

BS Final Year Project

- Designed a real-time Machine Learning pipeline to analyze real-time sensor data to perform preventive diagnostics, successfully modeling degradation patterns and detecting performance anomalies in elevator car doors. Engineered a full data pipeline in Python, using InfluxDB for time-series data storage and Grafana for live monitoring dashboards.

Contextly-AI

- A full-stack conversational assistant powered by React and LangChain, enabling context-aware interactions with user-provided PDF documents and URLs. Implemented Retrieval-Augmented Generation (RAG) using a ChromaDB vector store for long-term memory.

Law Bot AI

- Built an AI legal assistant trained on Pakistan's constitution and 100k+ judicial judgments to automate complex legal research for lawyers. Built a RAG pipeline with LangChain and OpenAI, indexing the legal corpus into a FAISS vector store for fast, context-aware information retrieval.

Model-Based Webform Generator

MS Semester Project

- Implemented a Model-Driven Engineering (MDE) pipeline that automatically generates functional frontend and backend codes from abstract survey form domain models. Built metamodels, QVTo (M2M) and Aceleo (M2T) transformations within unified Java runner. By keeping frontend-backend consistency it resolves the problem of manual boilerplate code.

AWARDS AND CERTIFICATIONS

- Best Capstone Award (Gold Medal):** Recognized for excellence in the Final Year Project on predictive maintenance.
- Merit Scholarship:** Awarded NUTECH Merit Scholarship for outstanding academic performance.
- [IBM: Data Analysis in Python \(Coursera\)](#)