Qamar Ul Islam

 qamar2315 | qamar-ul-islam | qamarislam1232@gmail.com | +92 314 8412001
Islamabad, Pakistan

SUMMARY

Highly motivated Software Engineer specializing in backend and AI/ML systems with a proven record of building scalable, reliable applications using Python, Go, and Node.js. Experienced in architecting and deploying robust microservices, end-to-end RAG pipelines, and LLM-integrated solutions. Passionate about shipping production-ready AI applications to solve complex, real-world problems.

WORK EXPERIENCE

Software Engineer, DevAxl   Feb 2025 - Present

– Architected and deployed a complete ETL data pipeline from scratch to unify and process data from diverse sources (YouTube, Ghost, Wistia) for a production RAG system, indexing embeddings into Pinecone.

– Enhanced an LLM-powered chat system using Python and Firebase Functions, implementing session history, context management, and extending its knowledge base to include video and PDF content.

– Engineered a scalable microservice in Go (Gin) for a high-engagement influencer application, featuring a TikTok-style video feed, JWT authentication, and S3 for storage.

– Developed a full-stack financial data module using Angular and NestJS, integrating the Xero API to fetch, sync, and display customer financial data on interactive AG Grids.

– Built and integrated a backend MVP in NestJS for an AI-powered quote generation system, utilizing the Gmail API to send customized quotation emails.

Freelance Backend & AI Developer   Feb 2023 - Feb 2025

– Engineered a full-stack coloring book generator with a polyglot backend, using Python/Flask for complex image processing and PDF generation, and Go/Gin for scalable user management and authentication (JWT).

– Developed a computer vision solution using Python and OpenCV to automate the measurement of object dimensions (length, width, distance) from video feeds with high precision.

– Built and deployed a full-stack voucher management system with Node.js and React, integrating Stripe API for fully automated payment processing and voucher distribution.

– Co-developed "Scam Eye," a spam detection tool utilizing custom-trained models and OpenAI LLMs.

KEY PROJECTS

Ask Sunnah - AI Islamic Scholar   Link to Demo

Tech Stack: Python, Flask, Next.js, TypeScript, RAG, OpenAI API, Pinecone, MySQL, Tailwind CSS

– Architected an end-to-end RAG system, featuring a Python ETL pipeline to process, embed, and index large volumes of Hadith texts from MySQL into Pinecone for semantic search.

– Developed a secure Flask API with key-based authentication and rate limiting, consumed by a modern Next.js frontend to provide users with fact-grounded, verifiable answers.

LearnXcellence: AI-Powered E-Learning & Proctoring Platform   Link to Demo

Tech Stack: React, Node.js, Python, Flask, MongoDB, YOLOv8, MediaPipe, Scikit-learn, JWT

- Engineered a decoupled microservice architecture with a React frontend, Node.js backend, and a dedicated Python/Flask service for computationally intensive AI/ML operations.
- Trained and deployed custom YOLOv8 and MediaPipe models for real-time AI proctoring, detecting academic integrity violations like phone use, gaze deviation, and identity spoofing via liveness detection.

AskQuran - AI Quranic Scholar [Link to Demo](#)

Tech Stack: Next.js, TypeScript, Python, Flask, Google Gemini API, Pinecone, LangChain, Tailwind CSS

- Built a complete RAG application using Google Gemini and Pinecone to provide source-backed answers to Quranic questions, with verifiable links to source verses for each response.
- Implemented a smart query classification layer to differentiate between topical questions and conversational small talk, significantly enhancing the overall user experience.

EDUCATION

COMSATS University Islamabad   Bachelor of Science in Software Engineering   2021 – 2025

SKILLS

Languages	Python, Go, JavaScript / TypeScript, SQL
AI / ML	RAG Pipelines, LLMs (OpenAI, Gemini), LangChain, Computer Vision (OpenCV, YOLOv8), Vector Databases (Pinecone)
Backend	Node.js (NestJS, Express), Python (Flask), Go (Gin), Microservices, REST APIs, Firebase
Frontend	React / Next.js, Angular, Tailwind CSS
Databases	PostgreSQL, MySQL, MongoDB, SQLite
DevOps & Tools	Git, Docker, GCP, Azure, JWT, Stripe API, Swagger, S3