





# Qamar Ul Islam

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Islamabad, Pakistan

## SUMMARY

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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

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### 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

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### Ask Sunnah - AI Islamic Scholar

[Link to Demo](#)

A full-stack AI application providing referenced answers to Islamic questions using a custom RAG pipeline built with Python, Flask, Next.js, and Pinecone. Features a complete ETL pipeline and a secure, rate-limited API.

### LearnXcellence: AI-Powered E-Learning & Proctoring Platform

[Link to Demo](#)

A full-stack e-learning platform featuring custom-trained AI models (YOLOv8, MediaPipe) for intelligent proctoring, AI-based liveness detection, and real-time video processing to ensure academic integrity.

EDUCATION

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COMSATS University Islamabad

Bachelor of Science in Software Engineering

2021 – 2025

SKILLS

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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