

Muhammad Shaheer

Full-Stack Software Engineer · Cloud & DevOps

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Full-stack engineer who ships production web apps and the cloud infrastructure that keeps them running. Founding engineer on a live invoicing platform for European SMEs. Focused on CI/CD, Docker deployments across AWS and Azure, and applied ML.

Technical Skills

Languages: TypeScript, JavaScript, Python, Go, SQL

Frontend: React, Next.js, Vite

Backend: FastAPI, Express.js, Node.js

Databases: PostgreSQL, MongoDB, MySQL

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, GitHub Actions, Caddy, MinIO, Git

Data & ML: TensorFlow, TensorFlow.js, NumPy, Pandas, Scikit-learn, Ollama

Experience

Software Engineer & Technical Consultant

Jan 2026 – Present

Inspirit360

Finland (Remote)

- Founding engineer and sole technical owner of a production invoicing platform for European SME back-offices.
- Built the platform end to end on **Next.js**, **FastAPI** and **PostgreSQL**, from an empty repository to a live service.
- Own the data models, API surface and deployment workflow; advise leadership on technical service expansion.

Machine Learning Intern

Aug 2025

Alpha Network

Remote

- Built an AI customer-support chatbot, fine-tuning **DistilBERT** for intent classification and **FlanT5** for response generation.
- Served it through a **Flask** API with a JavaScript front end, and synthetically expanded the training corpus to lift intent coverage.

Projects

Exam Proctoring Platform | *React, TypeScript, Express, MongoDB, Docker, AWS* | Final Year Project

- LTI 1.3 tool that launches inside Moodle and serves role-aware exam flows for students and teachers.
- Runs proctoring in the browser with **TensorFlow.js (COCO-SSD)**, **MediaPipe** and **face-api**: students install nothing, and no video leaves the device.
- Flags soft and hard incidents and stores violation snapshots to self-hosted **MinIO**.
- Packaged as a **Docker Compose** stack with a one-shot **EC2** deploy script for Let's Encrypt certificates.

watcher | *Go, Docker, Ollama*

- Self-hosted daemon that tails application logs and explains crashes with a local LLM, so nothing leaves the machine and no stack traces get pasted into a chatbot.

CI/CD & Kubernetes Pipeline | *GitHub Actions, Docker, Kubernetes, Azure*

- CI runs each service's tests against **Postgres** service containers, then pushes images to **Azure Container Registry**.
- CD deploys to **AKS**; per-PR staging namespaces with smoke tests and guaranteed teardown.

Open Source & Libraries | *TypeScript, Python, Go*

- Author of **reamify**: streams PDF tables into XLSX workbooks with bounded memory, behind a typed public API with tests and docs.
- Merged rotation-aware table-cell hit-testing into **genspark-ai/genoffice** (7.6k stars); opened a performance PR cutting chart detection off quadratic paths in **firecrawl/pdf-inspector**.

Lookvisa | *React, Node.js, Express, MongoDB* | Commercial Project

Nov 2024 – Feb 2025

- Backend developer on a commercial platform connecting investors with investment seekers; designed the core API architecture and data models.

Education

Bachelor of Science, Computer Systems

2024 – 2026

Riphah International University

Pakistan · CGPA 3.71/4.0

- Exchange semester at **Multimedia University (MMU)**, Cyberjaya, Malaysia (Apr – Jul 2026).

Associate Degree, Computer Science

2022 – 2024

Riphah International University

Pakistan · CGPA 3.98/4.0

Certifications

OCI AI Infrastructure Associate (Oracle University) · Google AI Essentials (Coursera) · AI for Brain-Controlled Applications (NRG) — 2025