M. S.

Software Engineer · Cloud & DevOps
Lahore, Pakistan (Open to Relocation)

Engineer who builds products end to end, from schema and API to deployment and CI/CD. Founding engineer on an invoicing platform for SMEs, with open-source work carrying 22 GitHub stars and a merged contribution to a 7.6k-star repository.

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 Jan 2026 – Present
B2B SaaS Company *Remote*

- Founding engineer on an invoicing platform for SMEs; took it from an empty repository to a deployed service.
- Currently maintain the product and its deployment workflow.

Machine Learning Intern Aug 2025
AI Startup *Remote*

- Fine-tuned **DistilBERT** and **FlanT5** to build an AI customer-support chatbot for intent classification and response generation.
- Synthetically expanded the training corpus to lift intent coverage against sparse support logs.

Projects

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

- Author of an MIT-licensed TypeScript library that 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 a 7.6k-star open-source office suite with regression tests.

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

- Built a Moodle (LTI 1.3) proctoring tool that launches inside the LMS and serves role-aware exam flows for students and teachers.
- Runs detection entirely in the browser with **TensorFlow.js**, **MediaPipe** and **face-api**, so students install nothing and no video leaves their device.
- Stores violation snapshots to self-hosted **MinIO**.
- Demonstrated end to end against a real Moodle and piloted; not yet run through a full exam cycle.

Self-Hosted Crash Explainer | *Go, Docker, Ollama* | Open Source

- 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. MIT, 7 stars, 2 forks.
- Deduplicates crash loops by fingerprint and sends Slack, Discord or webhook notifications when an incident starts and recovers.
- Demoed at the AI Tinkerers Lahore meetup in October 2026.

Hijri Calendar Dataset | *TypeScript, JSON, GitHub Actions* | Open Source

- Open, auditable Hijri calendar and prayer-time dataset for Pakistan, with confidence levels on sighted month starts, served as static JSON via **GitHub Actions**.

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

- Builds and pushes images to **Azure Container Registry**, then deploys to **AKS**.
- Creates per-PR staging namespaces with smoke tests and guaranteed teardown.

Commercial Platform | *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
University in Pakistan ***CGPA 3.71/4.0***

- Exchange semester in Malaysia (Apr – Jul 2026).

Associate Degree, Computer Science 2022 – 2024
University in Pakistan ***CGPA 3.98/4.0***

Certifications

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