

Mohammad Alkhenizan

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EDUCATION

King Saud University (KSU)

Bachelor of Science in Computer Science (First class honors)

Riyadh, Saudi Arabia

Expected Graduation 2027

EXPERIENCE

King Fahd National Library

Software Engineer (Part-time)

Riyadh, Saudi Arabia

Jun. 2026 – Present

- Implemented enterprise SSO with Keycloak (OIDC + PKCE), Active Directory/LDAP org mapping, and a staff portal that launches all internal apps from one login
- Built an Arabic newspaper OCR pipeline (layout → reading), benchmarked 8+ engines, and served local models on dual RTX 3090s via vLLM
- Shipped oral-history STT (video → timed SRT/VTT transcripts) and a reference-voice TTS voiceover tool for library staff
- Delivered Arabic-first internal systems: ITSM helpdesk, forms, document lifecycle (CLM), KPI/task assignment from AD, beneficiary CRM, collections, and photo archive

ODEL

Associate Software Developer (Part-time)

Riyadh, Saudi Arabia

Mar. 2025 – Present

- Develop, scale, and optimize full-stack web applications and complex data pipelines
- Utilize Python and PowerBI to drive advanced business intelligence and data visualization initiatives

Fiverr

Freelance Developer

Remote

May 2021 – Jun. 2023

- Delivered custom Python programming solutions, scripts, and technical services for international clients, establishing a strong foundation in client communication and rapid delivery

VOLUNTEER

Tuwaiq Club / AWS Cloud Club - KSU

Technical Team Lead (AWS Track)

Riyadh, Saudi Arabia

Feb. 2026 – Present

- Serve as the primary technical authority for the AWS track, overseeing complete project lifecycles from ideation through deployment
- Empower and mentor team members by delegating technical responsibilities and providing strategic guidance on AWS cloud architecture and certification paths

PROJECTS

Self-Hosted Cloud & AI Infrastructure | *Proxmox, Docker, Coolify, vLLM, Cloudflare*

- Architected a scalable server environment using Proxmox and Docker to host local LLM inference endpoints and optimize GPU resource allocation
- Implemented advanced networking protocols including reverse proxies, port forwarding, and direct DNS configurations to secure external access to local services
- Configured and managed Cloudflare Services and Tunnels for secure, zero-trust exposure of internal web applications and infrastructure management dashboards

Custom RAG Engines | *Python, Vector Databases, Local LLMs*

- Engineered and deployed Retrieval-Augmented Generation (RAG) pipelines to securely process and query datasets with maximum accuracy using best methods
- Integrated vector databases with locally hosted models via vLLM and Ollama to deliver highly accurate, context-aware AI interactions

AWARDS & CERTIFICATIONS

Competitions: Winner Devs Sandbox (1st & 2nd Editions), 2nd Place KSU Big O's Competitive Programming (1st & 3rd Editions), 2nd Place OpenData Hackathon, Top 20 National Finals Huawei ICT

Awards: Saudi International Conference for Pharmaceutical Research and Innovation (MSIR)

Certifications: Prerequisite Courses of AI - Mathematics (KAUST Academy), Calculus, Linear Algebra, & Probability for ML & Data Science (DeepLearning.AI), Google Technical Support Fundamentals (Coursera), Drone Programming & Operation (SAFCSP), PowerBI (O'Reilly)

TECHNICAL SKILLS

Languages: Python, FastAPI, C/C++, Node.js, JavaScript/TypeScript, React, Next.js, Rust, Java, gdScript

AI & Machine Learning: Local LLM Deployment, vLLM, Ollama, OCR, STT/TTS, Gemini/GPT APIs

Cloud & DevOps: AWS, Docker, Proxmox, Linux (Ubuntu/Debian), Nginx, Coolify, Keycloak, Fly.io, OVH, Direct DNS

Identity & Security: Keycloak, OIDC/PKCE, Active Directory/LDAP, RBAC

Databases: PostgreSQL, pgvector, Redis, ChromaDB, Supabase

Tools & Hardware: PowerBI, VS Code, Git/GitHub, Raspberry Pi, Arduino, Server/GPU Orchestration