

AI SIDDEG OMER

Software Engineer | Full Stack | Saudi Arabia

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience building enterprise-grade web and backend systems across IoT, fintech, healthcare, and industrial automation. Experienced contributing to and owning major modules in offline-first, multi-tenant, and real-time platforms, from database/API design to React and Next.js interfaces. Comfortable collaborating with cross-functional teams, presenting technical solutions to stakeholders, and delivering production-ready features for Saudi-market and Arabic/RTL products.

PROFESSIONAL EXPERIENCE

Software Engineer | **Primus Trading & Investment — Dammam** | Jul 2025 – Feb 2026

Petroleum Digital Operating System

- Contributed to the architecture and development of a multi-tenant SaaS fuel governance platform for large station networks in Saudi Arabia; supported solution presentations to major industry operators including Al-Drees.
- Built core backend modules for loyalty/wallet flows, OTP authentication, RFID and license-plate recognition integration, event-sourced audit trails, and anomaly-detection workflows across 55+ API endpoints.
- Supported offline-first edge computing design using industrial controllers, helping ensure fuel transactions could be authorized, geo-tagged, and audit-logged during connectivity interruptions.
- Stack: Django 5 · PostgreSQL · Redis · React · Next.js · TypeScript · Docker · Multi-tenant SaaS · Event sourcing

Real-Time Cash Management System

- Built core modules for a fintech cash-management platform for supermarket operations, reducing daily reconciliation workflow from 2+ hours to under 5 minutes.
- Implemented a real-time WebSocket event pipeline using AWS API Gateway, EventBridge, and Redis connection registry to support high-volume live dashboard updates.
- Developed offline-first edge buffering with SQLite and 4G LTE failover, designed to store 10,000+ transactions locally and prevent data loss during connectivity outages.
- Stack: Node.js · AWS Lambda · Aurora PostgreSQL · React 18 · React Native · Zustand · React Query · WebSockets · Redis · EventBridge · Tailwind CSS

Hospital Information System – Sudan Army Hospital

- Co-architected and built a deployment-ready hospital management platform for doctors, nurses, and administrative staff, pending final authority sign-off.
- Owned major full-stack modules: designed database schema, built FastAPI APIs with RBAC/JWT authentication, implemented Next.js 14 role-based UI flows, and configured Prometheus/Grafana monitoring.
- Stack: FastAPI · Python 3.12 · PostgreSQL · Redis · Next.js 14 · TypeScript · Tailwind CSS · Docker · Prometheus · Grafana

Full Stack Engineer | **Inseejam — Riyadh, Saudi Arabia** | Jan 2025 – Jun 2025

- Built a centralized IoT operations platform live across 20+ branches of SPL (Saudi Post Office), enabling managers to monitor devices, track energy consumption, and automate controls via scheduling rules.
- Developed real-time WebSocket layer for live device telemetry, built a modular custom hook architecture (useEdgeDevices, useSchedulerSettings) for clean separation of UI and data logic, and contributed to the Node.js backend.
- Worked on backend device integration using Java and .NET to connect physical hardware to ThingsBoard, enabling real-time telemetry and remote control across branches.
- Stack: React · Next.js · TypeScript · Redux · NestJS · Node.js · Java · .NET · PostgreSQL · MySQL · WebSockets · ThingsBoard · RTL/Arabic

Frontend Engineer | **AmnAds (امن اذس) — Riyadh, Saudi Arabia** | **Freelance / Part-time** | Nov 2024 – Jun 2025

- Delivered responsive landing pages and dashboard interfaces for client campaigns using Next.js, React, TypeScript, and Tailwind CSS.
- Translated Figma designs into reusable frontend components and connected UI flows to backend/API services where required.
- Improved page responsiveness, loading performance, and cross-browser behavior across Arabic/English client-facing pages.
- Stack: React · Next.js · TypeScript · Tailwind CSS · Node.js · PostgreSQL · RTL/Arabic

Full Stack Engineer | **Dateline — Qatar** | May 2024 – Aug 2024

- Built full-stack web applications including admin dashboards and e-commerce platforms using React, Node.js, Next.js, TypeScript, and MongoDB.
- Optimized API performance and database models; applied mentor feedback to improve code quality and system design practices.

Earlier Freelance & Contract Projects | [Saudi Arabia / Sudan / Remote](#) | 2021 – 2024

- ▶ Delivered responsive websites and client-facing web applications for Space Company, Modern Identity, Careerna, and DAM Company across Saudi Arabia and Sudan.
- ▶ Built and customized React/JavaScript interfaces, landing pages, and admin-style web flows; handled deployment, iteration, and client feedback.
- ▶ Improved website performance, SEO, responsiveness, and cross-browser compatibility across early client projects.

TECHNICAL SKILLS

Frontend: React · Next.js · TypeScript · JavaScript (ES6+) · HTML5 · CSS3 · Tailwind CSS · RTL/Arabic UI

State Management: Redux · Zustand · React Query · Context API

Backend & APIs: Node.js · NestJS · FastAPI · Django · REST APIs · tRPC · JWT/RBAC · WebSockets

Databases: PostgreSQL · Aurora · MySQL · MongoDB · SQLite · Redis

Cloud & DevOps: AWS (Lambda · API Gateway · S3 · EventBridge · CloudWatch) · Docker · CI/CD

Architecture: Multi-tenant SaaS · Offline-first systems · Event-driven architecture · Edge computing · Real-time dashboards

IoT & Systems: ThingsBoard · IoT device integration · Real-time telemetry

Other Languages: Python · Java · C# (.NET)

Soft Skills: Solution architecture · Technical stakeholder presentations · Agile/Scrum · Cross-functional collaboration

EDUCATION

Bachelor of Engineering — Electronic Engineering 2016 – 2022

Sudan University of Science and Technology

CERTIFICATIONS

CS50: Introduction to Computer Science — Harvard University, 2021

JavaScript Algorithms and Data Structures — freeCodeCamp, 2022

Full Stack Developer Training Program — Dateline, 2024

LANGUAGES

Arabic: Native · **English:** Advanced