ABDELRAHMAN MOHAMED

Full Stack Software Engineer | ERP Developer

Dammam, Saudi Arabia | Egyptian | Transferable Iqama | Military Service: Exempted
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Portfolio: arahman.pages.dev | github.com/a-rahman-25 | ERP demo: remix-of-hafco-base.pages.dev

SUMMARY

Full stack software engineer working in TypeScript, React and PostgreSQL (Supabase, Edge Functions). Sole developer of a custom, bilingual (Arabic/English) 13-module ERP for a heavy-transport company with 190 employees, 88 trucks and 80+ trailers. Owns the full lifecycle: requirements, database design, frontend, backend, Saudi government integrations, Android app, AI OCR, security and deployment. Cut monthly payroll from 2-3 days to seconds and document entry from 3-5 minutes to 8-12 seconds.

EXPERIENCE

Software Engineer & Systems Analyst – **HAFCO Big Movers** Nov 2025 – Present
Dammam, Saudi Arabia | Sole developer, responsible for development and production operations

- Gathered requirements from HR, finance and operations stakeholders, wrote technical documentation, and turned business processes into a 13-module ERP from scratch (fleet, HR, payroll, accounting, procurement, invoicing, reporting dashboards) with React, TypeScript and Supabase. Used by 9 office users; replaced 15+ Excel files and paper forms.
- Automated the monthly payroll run for 190 employees (GOSI, advances, absences, bank transfer files, payslips), cutting 2-3 days of manual Excel work to seconds.
- Launched ZATCA e-invoicing (QR code and hash), live in production on all invoices. Built 16 Muqeem services and REST API integrations with Bayan, Logisti, Qiwa and TAMM, tested in government sandbox environments; Qiwa data lookup in daily use.
- Published an Android Driver Portal (Capacitor) on Google Play for 88 active drivers: GPS attendance, 4 mandatory checkpoints per trip and document upload, with an offline-safe retry queue (IndexedDB) for weak mobile networks. Handles 100-150 completed trips a month.
- Automated invoice, employee-contract and delivery-proof entry with Google Gemini OCR on Supabase Edge Functions: 150-200 documents a month, 3-5 minutes by hand down to 8-12 seconds, with over 90% of fields correct without edits.
- Audited 620+ Row-Level Security policies across 111 PostgreSQL tables and fixed about 70 overly permissive ones; moved roles into a dedicated table with protected role changes, enforced 2FA for all non-driver users and a single-device session lock. Verified every access-policy change with SQL tests before release.
- Improved performance with driver-app code splitting, TanStack Query caching and PostgreSQL indexes. Set up CI/CD (GitHub to Cloudflare auto-deploy), Sentry error monitoring and company-network access restriction; run company IT.

PROJECTS

Kashef | AI document-extraction engine (AM Launch Web) In development

Turning the HAFCO ERP OCR pipeline into a reusable engine: per-document-type extraction (invoices, Qiwa contracts, vehicle reports) and queued batch processing with per-file error isolation. TypeScript, Supabase Edge Functions, Google Gemini.

MergesPDF | mergespdf.com | github.com/a-rahman-25/merges-pdf

Privacy-first PDF toolkit whose core tools (merge, split, compress, convert, sign, OCR, PDF to DXF) run fully in the browser with no uploads or accounts; added Arabic/RTL Excel-to-PDF conversion with automatic pagination; unit tests and component tests with Vitest. About 2,800 unique visitors in 30 days. React, TypeScript, PDF.js.

Production websites | hafcobigmovers.com | lgs-tires.com: built and maintain both sites, with Moyasar and Tamara payments.

GPS Fleet Tracking | Real-time vehicle tracking dashboard with live location updates. Traccar, MongoDB, WebSocket.

EDUCATION

B.Sc. Computing & Information Systems, Arab Academy for Science and Technology 2024

CGPA 3.2 / 4.0 | Relevant coursework: OOP, Data Structures & Algorithms, Databases, Systems Analysis & Design | Graduation project: blockchain/NFT academic credential verification (A+) | Best Capstone Project Award, Computer Scientific Society, 2023/24
Cloud Computing coursework (CS428, 2024): Docker on AWS EC2 (custom image), Lambda with S3 triggers, VMware ESXi snapshots.

SKILLS

Programming Languages: TypeScript, JavaScript (ES6+), SQL, HTML5, CSS3; familiar with Python, Java

Frontend and Mobile: React 18, TanStack Query v5, Tailwind CSS, Capacitor (Android), responsive RTL UI, UI/UX design (Figma), Vitest (Jest-compatible), React Testing Library

Backend and Data: RESTful APIs, Node.js (npm/Vite tooling), Supabase (PostgreSQL, Edge Functions, Auth, Storage), Row-Level Security, database design

ERP and Integrations: Custom ERP architecture (in-house build, not Odoo/SAP), payroll and accounting workflows, ZATCA, Bayan, Logisti, Qiwa, TAMM, Muqeem, Google Gemini OCR, Moyasar, Tamara

Cloud and DevOps: Cloudflare, Git and GitHub, CI/CD, Sentry, Docker, AWS EC2/S3/Lambda and Linux (coursework)

AI-Assisted Development: Claude, Cursor, Lovable, Genspark; Google Gemini API (production OCR)

CERTIFICATIONS

Meta (Coursera): Programming with JavaScript, Intro to Front-End Dev (2023) | ITIDA Excellence Certificate, Information Technology Industry Development Agency (2024) | ICT Hub Egypt: Frontend Web Dev (2023) | UAB Barcelona: AI Summer Training (2023)

LANGUAGES

Arabic (native), English (professional)