AMDJED BELGACEM

Principal Software Engineer · Technical Lead. Available for immediate relocation.

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Arabic (Native), English (Fluent), French (Professional), Turkish (Professional)

SUMMARY

Principal Software Engineer and Technical Lead with 4+ years of end-to-end ownership across production-grade platforms in medical, e-commerce, and social sectors. Independently architects, deploys, and secures complete cloud infrastructure alongside full application development, from codebase to server hardening to live intrusion prevention in regulated environments. Known for delivering complex systems under pressure, leading developer teams, and taking full ownership without oversight. M.Eng. Cyber Security. Native Arabic speaker. Immediately available.

PROFESSIONAL EXPERIENCE

Principal Software Engineer — August 2026 – Present
QR Tech Solutions, Al Ain, UAE

- Responsible for the LiDAR infrastructure at QR Tech Solutions.
- Developing software solutions across LiDAR and urban sectors.

Senior Full-Stack Engineer & Technical Lead — June 2024 – August 2026
Perinatal Tıp Vakfı, Istanbul, Türkiye

- Sole engineer responsible for architecture, development, and infrastructure of multiple concurrent production platforms sustaining high availability and consistent performance growth across a clinical user base.
- Owned complete server security in production: configured firewalls, deployed Fail2Ban intrusion prevention, and actively monitored and neutralised live SSH brute-force and DDoS threats in real time.
- Built and led a team of 10 developers; established code standards, CI/CD pipelines with Docker, and automated testing workflows, measurably improving delivery speed and release quality.
- Designed HIPAA-aligned databases and data pipelines ensuring privacy, compliance, and high availability in a regulated medical environment.

Lead Full Stack Developer (Contract) — February 2024 – June 2024
PuzzMeta Co., Tekirdağ, Türkiye

- Delivered end-to-end features across API design, database optimization, and responsive frontend within a focused contract engagement, visibly improving application performance and user satisfaction.
- Led agile sprints and mentored 3 junior developers, maintaining code quality standards while accelerating feature delivery.

AWS System Administrator — January 2022 – August 2022
Sufle Io, Istanbul, Türkiye

- Designed secure multi-application AWS infrastructure with high database availability across 10+ applications; automated provisioning via CloudFormation and CDK, significantly reducing deployment time and infrastructure costs.
- Implemented Conagilience-aligned cybersecurity measures reducing production vulnerabilities; progressed from mentee to key infrastructure contributor within months.

SELECTED PROJECTS

Baroot CNC — Learning and commerce
An English and Arabic platform for CNC and manufacturing, with academies, courses, live sessions, certificates, a store and a page builder. Its AI assistant detects Arabic dialects, the server sets every price, and each payment is re-verified with the gateway before it settles.
Next.js, NestJS, PostgreSQL, Redis, Meilisearch, Mux

RAWHNA — Multi-vertical commerce
An Algeria-first platform for marketplace, vehicles, services, real estate and luxury, built around dinars, wilayas and cash on delivery, in four languages with Arabic right-to-left. Search fuses full-text and vector results, row locks prevent overselling, and 43 live probes check that tenants stay isolated.
Next.js, Expo, Fastify, GraphQL, PostgreSQL, pgvector

Med-Engine — Healthcare platform
A multi-tenant platform for patients, nurses, doctors and hospital admins: provider discovery, booking with payments, an encrypted document vault, referrals, communities, and chat with voice calls. Background work runs on a Postgres job queue and NATS JetStream, with no Kafka.
Go, Fiber, PostgreSQL, NATS JetStream, Next.js, three.js

Notch Island — Native macOS app

Turns the MacBook notch into a Dynamic Island style surface for AI agent events with Allow and Deny, notifications, calls, media and usage limits. Written entirely in Rust on AppKit, with its own spring animator on a fixed 240 Hz sub-step and a self-test that asserts state, geometry and pixels.

Rust, AppKit, objc2, tokio, SQLite

Predictify — Market prediction research

Ingests live crypto, equity, gold and FX data, trains a model on one-minute bars and scores every prediction in an immutable ledger. Signals stay paused because the model failed its own cost-adjusted, purged walk-forward gate, and the site says so rather than showing a number it hasn't earned.

Next.js, FastAPI, TimescaleDB, Celery, LightGBM

Ecommercia — E-commerce back office

A multi-tenant workspace for shop owners and staff, covering orders, inventory, deliveries, accounting and support in three languages. Moving the orders query to a single round trip cut p95 from 694 ms to 64 ms, and a k6 run of 43,478 requests saw no failures and no orders leak between tenants.

Nuxt, Vue, Go, Supabase, Redis, Citus

HouShop — Desktop point of sale

An offline point of sale and inventory app built for a family electronics shop, with variants, reservations, returns and valuation, in English, French and Arabic. It prints labels straight to thermal printers in TSPL, encodes its own EAN-13 barcodes and reads scanners correctly on AZERTY keyboards.

Tauri, Rust, React, TypeScript, SQLite

Mini Market — Self-hosted storefront

An online store for Algerian retailers with per-wilaya delivery prices, three languages, and an admin console for products, orders, deals and staff. It has fuzzy search in Postgres, custom roles enforced by row-level security, a sales map of all 58 wilayas and domain-bound licence keys.

Next.js, Supabase, PostgreSQL, Tailwind CSS, Playwright

TECHNICAL SKILLS

Frontend: Next.js, React.js, Nuxt.js, Vue.js, React Native, Expo, TypeScript, Tailwind CSS, Framer Motion, Redux, Zustand, Jotai, Pinia, Shadcn UI, Radix UI

Backend: Node.js, NestJS, GoLang, FastAPI, GraphQL, GraphQL Gateway, tRPC, Express.js, Bun.js, Laravel

AI & Data: AI SDK (multi-provider), LangChain, Gemini, OpenAI, Anthropic, scikit-learn, pandas, FastAPI LLM Pipelines, Kafka, Elasticsearch

Databases: PostgreSQL, MongoDB, MySQL, Redis, Prisma, SQLModel, Supabase, Firebase

Cloud & DevOps: AWS (EC2, RDS, S3, Lambda, Lightsail, Load Balancers, Route53, CloudFormation, CDK), Docker, Terraform, CI/CD, Git

Security & Systems: Linux Server Administration, Firewall Configuration, Fail2Ban IPS, Network Security, HIPAA Compliance

AI FLUENCY

Models: Claude, Codex, Gemini, DeepSeek, GLM, Kimi, Llama, Mistral, Qwen, Grok

Practice: Multi-agent systems, Advanced prompt engineering, Tool use, Code generation at production scale, Architectural reasoning with AI, Rapid iteration with frontier models, RAG and vector search, Agent memory and context engineering, Model Context Protocol (MCP), Evals and guardrails, Model routing and cost control, LLM observability

EDUCATION

Master of Engineering (M.Eng.) – Cyber Security — October 2022 – October 2023

Kadir Has University, Istanbul, Türkiye

Bachelor of Engineering (B.E.) – Computer Engineering — October 2018 – September 2022

Kadir Has University, Istanbul, Türkiye

ACHIEVEMENTS AND CERTIFICATIONS

3rd Place, University Software Project Competition — May 2023

Faculty of Computer Engineering

Placed 3rd among 30+ competing teams; built a cloud-based application with AWS, React.js and Laravel.

Sufle Academic Excellence Award & Dean's List — 2022 – 2023

Kadir Has University

Awarded scholarship, mentorship and internship at Sufle Io; maintained GPA in top 5% of faculty.

Conagilience Cyber Resilience Foundation — December 2022

TACAS Consulting, ID: CCRF6E81A5C28F8F

AWS Cloud Development Certificate — June 2024

Sufle Io