

Ahmed Reda

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SUMMARY

Backend Engineer and Freelance Team Lead with a track record of architecting, developing, and delivering production-grade solutions. Proficient in Node.js ecosystem and modern DevOps practices. Combines problem-solving skills with practical experience in system design to build secure and scalable software.

EXPERIENCE

Backend Developer & Team Lead

Sep 2025 – Jul 2026

Independent Contractor

Remote, Egypt

- Architected and deployed backend infrastructure while leading the technical delivery of 2M Whites Pharma, a commercial pharmaceutical distribution network, and Arabity, a car service booking platform
- Designed CI/CD pipelines with GitHub Actions, multi-stage Docker builds, automated TLS certificate renewal, and secure cloud synchronization, reducing deployment time from 20 minutes to under 5 minutes
- Built a production monitoring PLG stack using Prometheus, Loki, Grafana, and Nginx reverse proxy, enabling centralized logging, real-time monitoring, and faster incident diagnosis

PROJECTS

Salamti | NestJS, Prisma, PostgreSQL, PostGIS, Redis, BullMQ, MQTT, Socket.io

Apr 2026 – Jun 2026

- Engineered an IoT-integrated accident response backend, processing real-time vehicle telemetry via MQTT and a custom severity assessment algorithm, supporting thousands of API requests daily
- Developed a real-time dispatch gateway utilizing WebSockets and PostGIS for spatial proximity calculations to instantly assign the nearest paramedics
- Optimized system throughput and reliability by implementing Redis for high-speed data caching and BullMQ for asynchronous background processing, reducing system latency by 45%
- Designed backend components using event-driven architecture to decouple services and improve scalability

Arabity | NestJS, TypeORM, PostgreSQL, Firebase, Gemini AI, Kashier

Nov 2025 – Dec 2025

- Designed and implemented a modular RESTful backend API for an on-demand car maintenance and repair platform
- Integrated Kashier Payment Gateway and FCM to support secure payments and real-time booking notifications
- Developed an AI-powered customer support assistant using Google Gemini API with real-time streaming responses
- Secured the platform by implementing multi-tier JWT authentication, Google OAuth 2, and Role-Based Access Control

Flixly | Express.js, Sequelize, PostgreSQL, Cloudinary, Swagger

Jun 2025

- Engineered a YouTube-style API featuring channel management, video interactions, and tag-based discovery
- Streamlined media processing by integrating Cloudinary for video/image uploads and transformations
- Accelerated front-end integration by authoring Swagger documentation and standardizing responses with JSend

SKILLS

Backend | Node.js, Express.js, Nest.js, WebSockets, MQTT, RESTful APIs, GraphQL, Unit & Integration Testing

DevOps | CI/CD, Docker, GitHub Actions, Nginx, PLG (Prometheus, Loki, Grafana), AWS, Linux, VPS Hosting

Databases | PostgreSQL, MongoDB, Redis, PostGIS, Prisma, TypeORM, Sequelize, Mongoose

Architecture | OOP, SOLID Principles, Design Patterns, Clean & Event-Driven Architecture

Tools & Technologies | Git, GitHub, BullMQ, Postman, Swagger, OAuth2, JWT

Programming Languages | JavaScript, TypeScript, Python, C++

Additional Skills | Problem Solving, Networking, Team Leadership

Languages | Arabic, English

EDUCATION

B.Sc. in Computer Science

Sep 2022 – Jul 2026

Faculty of Computers and Artificial Intelligence, Damietta University

MERN Stack and Soft Skills Scholarship

Oct 2024 – May 2025

DEPI "Digital Egypt Pioneers Initiative", Round 2