

Abdallah Hassan Magdy Mohamed

Full-Stack Engineer

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Summary

Full-stack engineer with three years of production experience across web, mobile, and AI-integrated systems. Has taken enterprise platforms from concept to production for government and commercial teams, including a graph-based multi-agent orchestration tool and an insurance claims system. Core stack is TypeScript, React, Node.js, and Python on AWS, with production experience in LLM integration and agentic workflows. Comfortable working independently in remote, distributed teams.

Professional Experience

Julfar Consultancy Services, Ras Al Khaimah (RAK), UAE Oct 2023 – Present
Software Developer (Full-Stack)

- Own features end to end across frontend, backend, and AI layers on 3 production platforms, working with cross-functional teams of 7+ engineers.
- Embed LLM-backed features into user-facing products, adding output validation, retry handling, and fallback paths that keep multi-step flows running when individual model calls fail.
- Cut UI-related bug reports by 80% by restructuring component boundaries and standardizing state management conventions across React applications.
- Use AI coding agents as part of daily development, for architectural review and debugging as well as implementation.

Action AI — *Enterprise low-code AI automation platform* actionai.co

- Built the graph-based workflow editor that lets non-technical users compose multi-agent flows visually, each node carrying its own configuration schema and typed input and output ports.
- Enforced type validation in real time across 20+ node types, blocking incompatible connections at the point of interaction rather than failing at runtime.
- Designed a recursive state model that supports sub-graph nesting to arbitrary depth, isolating each level in its own store after shared references caused cross-level mutations in production.
- Consolidated global state in Zustand and standardized the interface on a library of 50+ reusable ShadCN components.

Mosadad — *Accident recovery and insurance claims system* mosadad.org

- Delivered the full stack for a claims platform covering the claim lifecycle from submission through recovery, under data integrity and role-based access requirements.
- Structured a .NET backend of 20+ endpoints around CQRS and MediatR, separating read and write paths where auditability mattered.
- Developed the Angular front end with RxJS, Signals, Angular Material, and Bootstrap.

RakMun — *Cross-platform mobile application*

- Shipped a full-stack mobile app to iOS and Android in React Native and Expo, with a Node.js and MongoDB backend covering authentication, data persistence, and API integration.
- Ran sprint planning, task breakdown, and delivery tracking as Scrum Master for a 5-member team, alongside hands-on development.

Samsung Innovation Campus Sep 2021 – Jan 2022
AI Engineering Intern

- Applied machine learning and deep learning to computer vision problems using Python, TensorFlow, Keras, and scikit-learn across a 4-month program.
- Finished in the top 3 of the cohort.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL, C#, Java, C++
Frontend: React, Next.js, React Native, Expo, Angular, Redux, Zustand, React Query, RxJS, Tailwind CSS, ShadCN
Backend & Data: Node.js, Express, .NET, REST APIs, PostgreSQL, MongoDB, Firebase, CQRS, Pandas, NumPy
AI & GenAI: LLM integration (OpenAI, Anthropic), agentic workflows, multi-agent orchestration, RAG, prompt and context engineering, Model Context Protocol (MCP), AI coding agents (Claude Code, Copilot, Cursor), TensorFlow, Keras, OpenCV
Cloud & Tooling: AWS (EC2, S3, Amplify, Lambda), Docker, Cloudflare Pages/D1/R2, Git, CI/CD, Linux

Selected Projects

Edara Platform edara.com
Front-End Developer

- Created the reader for a multilingual knowledge platform serving 10,000+ text and audio summaries, one of the leading book summary services in the MENA region.
- Integrated PDF and EPUB rendering with ePub.js, text-to-speech playback, graphic book support, and right-to-left layout handling for Arabic content.

Eddie's Portal eddies-entertainment.com
Full-Stack Developer

- Launched an events and booking platform spanning venues, talents, and shows, with search, filtering, media carousels, and a multi-step booking request flow.
- Wrote Python backend services with transactional email via Resend, and deployed the platform on Cloudflare Pages, D1, and R2.

Traffic Environment Recognition System

Graduation Project

- Trained a YOLOv3-Tiny model on Darknet for real-time detection of vehicles, pedestrians, and traffic signals at 30+ FPS, with lane and crosswalk detection reaching 94% accuracy.
- Exposed live detection results through 6+ Flask and Node.js endpoints to a React frontend, hosted on AWS EC2, Amplify, and Render.

Education

Cairo University — Faculty of Computer Science and Artificial Intelligence
B.Sc. Software Engineering GPA 3.47, With Honors (Ranked 6th)

Certifications

AWS Certified Cloud Practitioner | ISTQB Certified AI Tester (CT-AI) | ISTQB Certified Tester Foundation Level (CTFL)
| Reinforcement Learning Specialization, University of Alberta