

MOHAMMED GHALLY

FULL STACK DEVELOPER (AI-ASSISTED DEVELOPMENT)

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SUMMARY

Full Stack Developer with 6 years of experience taking products from a rough brief to a technical blueprint, then building, shipping and running them in production. Builds with React, Next.js, TypeScript and Tailwind on the front end, Node.js, Python (FastAPI) and Laravel on the back end, and PostgreSQL, MongoDB and Redis underneath, deployed on AWS, GCP, DigitalOcean and Vercel with Docker and CI/CD. Uses Claude Code and Codex every day with a plan-first workflow, and reviews, tests and fixes every line they produce. Has built AI features into real products: WhatsApp chatbots, document processing, AI agents and automations, and RAG search. Has owned the stack across several products at once, with payments, messaging, CRM and analytics integrations. Delivered work for Qatar National Bank, Etisalat by e&, Emirates, EgyptAir and WE (Telecom Egypt). Based in Dubai, own visa, available immediately.

SELECTED CLIENTS

Qatar National Bank | Etisalat by e& | Emirates | EgyptAir | WE (Telecom Egypt)

PROFESSIONAL EXPERIENCE

Senior Software Engineer - MANA Advisory Services LLC

Oct 2025 – Sep 2026

- Owned a live multi-company platform end to end: turned loose briefs from the GM into technical blueprints (architecture, data models, user flows), then built, shipped and maintained it in production.
- Ran 4 to 6 products at the same time across the group (business platform, company websites, internal tools and a mobile app), owning the full stack and infrastructure.
- Used Claude Code and Codex daily with a plan-first workflow and CLAUDE.md project rules, reviewing and testing every diff. Caught and fixed AI-generated issues such as missing permission checks, N+1 queries and invented APIs.
- Built Next.js, React, TypeScript and Tailwind front ends, plus Node.js and Python (FastAPI) services with REST and GraphQL APIs on PostgreSQL, MongoDB and Redis.
- Built AI features with OpenAI, Gemini and Anthropic APIs: a WhatsApp chatbot, document processing and data extraction, AI agents and automations, and RAG search over company documents.
- Integrated payments, WhatsApp and email messaging, Odoo CRM / ERP, and GA4 and Meta Pixel analytics.
- Managed hosting and infrastructure on Vercel, Cloudflare (DNS, SSL), AWS, GCP and DigitalOcean, with Docker, GitHub Actions CI/CD, monitoring, error tracking and backups.

Full-Stack Software Engineer - Artway Decor LLC

Feb 2024 – Oct 2025

- Developed customer-facing web apps and landing pages in Next.js, React, TypeScript and Tailwind CSS with SSR and SSG, improving Core Web Vitals and technical SEO.
- Built Laravel (PHP) and Node.js APIs, and managed content through headless CMS (Strapi, Sanity) and WordPress.
- Integrated Stripe payments, webhooks and third-party services, and added real-time updates with WebSockets.
- Built a React Native (Expo) companion app that shared API clients and business logic with the web platform.
- Wrote unit and end-to-end tests with Jest and Playwright, shipped through CI/CD.

Frontend Developer - 3S Software

Oct 2020 – Feb 2024

- Built modern, scalable web interfaces in React, JavaScript and TypeScript for enterprise clients in banking, telecom and aviation.
- Integrated REST and GraphQL APIs with clear loading, error and empty states.
- Managed state with Redux and wrote unit and component tests with Jest and React Testing Library.
- Improved usability, accessibility and performance of existing components across browsers and screen sizes.

SKILLS

AI Development

Claude Code, OpenAI Codex, Cursor, OpenAI / Gemini / Anthropic APIs, AI Agents, Chatbots, RAG, Document Processing

Frontend & CMS

React, Next.js (App Router, SSR / SSG), TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3, React Native (Expo), Strapi, Sanity, WordPress

Backend & Databases

Node.js, Express.js, Python (FastAPI), PHP (Laravel), Go, REST APIs, GraphQL, WebSockets, PostgreSQL, MySQL, MongoDB, Redis, Prisma

Infrastructure

AWS, GCP, DigitalOcean, Vercel, Cloudflare, Docker, GitHub Actions CI/CD, Linux, Monitoring, Backups

Integrations

Payments (Stripe), WhatsApp & Email Messaging, Odoo CRM / ERP, GA4, Meta Pixel

Quality, Security & SEO

Jest, Playwright, Code Reviews, Role-Based Access, API Security, Technical SEO, Core Web Vitals

EDUCATION

Modern Academy for Computer Science & Management Technology

2016 - 2021

Bachelor's Degree in Business Administration

- Chose business deliberately to understand how organisations really run, so I can build technology that solves real business problems instead of just writing code
- Focused my studies on the side of business that meets technology: how information flows through an organisation, how decisions are made from data, and how systems support operations, finance and management
- Learned to turn business processes into structured requirements, data models and measurable KPIs, which I now use daily to translate stakeholder needs into technical blueprints and working software
- Relevant coursework: Management Information Systems, Computer Applications, Statistics and Quantitative Analysis, Operations Research

Zero To Mastery Academy

2021 - Present

Advanced Software Engineering and Full-Stack Development

- In-depth software engineering program covering the full journey from fundamentals to senior-level engineering practices
- JavaScript and TypeScript in depth: the event loop, closures, prototypes, async patterns, and functional and object-oriented programming
- Full-stack architecture: React, Redux and GraphQL front ends, Node.js and Express APIs, PostgreSQL and Redis, authentication and security
- Senior engineering practices: design patterns, clean code and SOLID principles, scalable system design, performance optimisation, testing, and CI/CD with Docker
- Computer science foundations: data structures and algorithms, Big O complexity analysis, and problem solving for technical interviews

American University in Cairo, School of Continuing Education

Introduction to Programming (C++)

- Intensive foundation in computer science and programming, built from the ground up in C++
- Computer fundamentals: how computers work, hardware architecture, memory, number systems and logic
- Problem solving and algorithmic thinking: breaking problems down, designing algorithms, flowcharts and pseudocode, and tracing logic before writing code
- Data structures and algorithms: arrays, structs, pointers, linked lists, and sorting and searching algorithms
- Programming in depth: control flow, functions, memory and references, object-oriented design, and file handling

ADDITIONAL INFORMATION

Languages:

English (Fluent), Arabic (Native), French (Beginner)

Certifications:

- Master the Coding Interview: Data Structures & Algorithms
- Complete React Developer: Redux, Hooks, GraphQL
- The Complete JavaScript Course: From Zero to Expert
- JavaScript: The Complete Guide (Beginner to Advanced)
- Node.js, Express, MongoDB & More: The Complete Bootcamp
- Node with React: Full-Stack Web Development
- Modern React with Redux
- Git & GitHub: The Practical Guide
- Advanced CSS and Sass: Flexbox, Grid, Animations