

Omar Ashraf
Mid-Senior Full-Stack Software Engineer & Tech Solution Architect
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Summary

Mid-senior full-stack engineer and B.Sc. in Computer Science & Artificial Intelligence from Benha University with 4+ years architecting and delivering scalable end-to-end web platforms. Proven expertise as Tech Solution Engineer at Navaia.sa, designing optimized database systems, implementing production CI/CD pipelines, and leading E2E testing strategies. Specialized in building high-performance solutions across LMS, e-commerce, QA, and analytics platforms with a focus on code quality, system reliability, and clean architecture.

Core Technical Skills

Programming Languages & Full-Stack: TypeScript, JavaScript, Python (FastAPI, Flask), SQL

Frontend Frameworks & Libraries: Next.js, React, Redux, Tailwind CSS, HTML5, CSS3, Responsive UI/UX

Backend & APIs: Node.js, Express, Python backends, REST APIs, tRPC, ORPC, Query Optimization, Authentication & Authorization, Security best practices (RLS, CORS)

Databases & ORMs: PostgreSQL (Neon, Supabase), MongoDB, Firebase, SQLite, Prisma ORM, schema normalization, microservices architecture

Testing & Quality Assurance: Playwright (end-to-end testing), Jest, unit testing, integration testing, test automation, QA pipeline integration

Cloud & Deployment: AWS (EC2, S3, RDS, CloudFormation, ECS, Lambda, CloudWatch), Vercel, Render, Docker, Coolify, CI/CD pipelines (GitHub Actions, automated deployments)

DevOps & Infrastructure: Linux server management, SSH/terminal deployment, PWA development, performance monitoring, caching strategies

Professional Experience

Mid-Senior Full-Stack & Tech Solution Engineer | Navaia.sa | 2025–Present | KSA

Architected and maintained scalable QA platform and reporting systems, collaborating across frontend, backend, and AI teams to deliver production-grade solutions.

- **Designed optimized PostgreSQL schemas and integrated MongoDB for handling high-volume data efficiently; implemented query optimization and indexing strategies**
- **Led end-to-end CI/CD deployments on AWS with automated testing pipelines and staging environment validation**
- **Implemented Playwright-based E2E test suites to ensure reliability across multiple environments and user workflows**
- **Developed secure REST APIs and tRPC/ORPC endpoints with proper authentication, authorization, and error handling**
- **Mentored junior developers on clean code principles, design patterns, and best practices in full-stack development**
- **Troubleshoot production issues, implemented monitoring via CloudWatch, and optimized system performance**
- **Collaborated with cross-functional teams to gather requirements and translate them into scalable technical specifications**

Tech Solution Engineer | Outlier | 2024–2025 | Remote

Supported development and integration of data-driven web tools and contributed to E2E system reliability.

- **Enhanced system performance through schema optimization, caching strategies, and API endpoint improvements**
- **Implemented automated testing frameworks to validate feature deliveries across staging and production environments**
- **Collaborated with cross-functional teams to ensure reliable E2E deliveries and maintain code quality standards**

Freelance Full-Stack Developer | Upwork | 2024–Present | Remote (KSA, Hungary, Egypt, Indonesia)

Designed and delivered production-grade LMS, e-commerce platforms, and analytics systems for international clients.

- **Owned full delivery lifecycle: requirements gathering, system architecture, database design, development, testing, documentation, and deployment**
- **Built scalable backend systems using Node.js and Python (FastAPI); developed secure APIs with Prisma ORM and proper authentication layers**
- **Implemented comprehensive E2E test suites with Playwright and unit tests to ensure code reliability**
- **Set up CI/CD pipelines on Vercel and AWS for automated deployments and continuous integration**
- **Designed normalized PostgreSQL schemas and optimized queries for high-performance data retrieval**
- **Managed client relationships, milestone tracking, and async workflows for long-term partnerships**
- **Deployed applications to AWS (EC2, S3, RDS) and Vercel with proper monitoring and logging**

Frontend Web Tutor (React & Flutter) | Google Developer Student Club | 2021–2022 | Benha University

Delivered workshops on frontend and mobile development, guiding students in building production-like applications.

- **Authored tutorials on state management, clean architecture, repository patterns, and backend API integration**
- **Mentored students in React, TypeScript, and Flutter best practices**

Education

**B.Sc. Computer Science & Artificial Intelligence
Benha University, Egypt**

Languages

**Arabic: Native/Bilingual
English: Fluent**