Omar Aglan

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Professional Summary

Full-Stack Software Engineer with strong backend experience building production web applications using **Node.js (Express/NestJS)**, **React/Next.js**, and **ASP.NET Core**. Skilled in designing scalable **REST APIs**, integrating **SQL/NoSQL databases**, implementing **JWT/OAuth2** authentication, and automating delivery with **Docker + CI/CD (GitHub Actions)**. Additional experience in **C/C++** and **Unity (C#)** for game development and performance-focused programming.

Core Competencies

- Backend API design (REST), service architecture, database schema design, performance optimization
- Authentication/authorization (JWT/OAuth2), security best practices, role-based access control (RBAC)
- CI/CD automation, containerization with Docker, release management and environment configuration
- Full-stack delivery: modern frontends, reusable components, state management, API integration
- Collaboration: requirements clarification, estimations, code reviews, mentoring, cross-time-zone delivery

Technical Skills

Languages: JavaScript, TypeScript, C#, C/C++, Python, SQL, HTML, CSS
Frontend: React, Next.js, Vue.js, Tailwind CSS, Bootstrap
Backend: Node.js, Express.js, NestJS, ASP.NET Core, PHP, Firebase
Databases: PostgreSQL, MySQL, MongoDB, SQL Server
Game Development: Unity, C#, OOP, Gameplay Systems
DevOps/Tools: Docker, GitHub Actions, CI/CD, Git, Makefile, CMake
Architecture/Concepts: REST APIs, Microservices, Unit/Integration Testing, SDLC

Professional Experience

Pyramid Systems Inc.   *Founder & Lead Software Engineer (Self-employed)*
Remote | 2025 – Present

- Led end-to-end delivery for multiple products, owning system design, implementation, testing, deployment, and production support.
- Designed backend services and REST APIs; implemented authentication/authorization and database integrations.
- Set up containerized environments using Docker and automated build/test/release pipelines with GitHub Actions.
- Established engineering practices: task breakdown, estimation, code review workflows, and release coordination.
- **Tech:** Node.js, Express/NestJS, React, TypeScript, Docker, GitHub Actions, SQL/NoSQL

Rafeek Academy   *Software Engineer*
Egypt | Jan 2025 – Jun 2025

- Developed full-stack web applications using React/Next.js frontends and Node.js / ASP.NET Core backends.

- Built secure authentication and authorization flows; delivered APIs integrated with SQL Server and MongoDB.
- Improved backend performance by **25%** through query optimization and caching strategies.
- Participated in feature planning, implementation, and deployment across staging/production environments.
- **Tech:** React, Next.js, Node.js, ASP.NET Core, SQL Server, MongoDB

Freelance Projects   *Full-Stack Engineer*

Remote | 2023 – Present

- Delivered custom web solutions using React/Vue frontends and Node.js/PHP backends based on client requirements.
- Migrated and modernized legacy codebases, improving maintainability via improved structure and reusable components.
- Implemented CI/CD pipelines and deployment workflows, improving deployment reliability by **40%**.
- Collaborated with international clients across time zones to scope requirements, estimate work, and deliver milestones.
- **Tech:** React, Vue.js, Node.js, Express, PHP, Docker, GitHub Actions

Selected Projects

Digital-Scribe   *React, TypeScript, Node.js*

- Full-stack product delivered from architecture to deployment; focused on clean UX and reliable API integration.
- Implemented backend endpoints and production-ready configuration with CI/CD automation.

Myriad-Mind   *Python*

- Designed an AI-focused system with emphasis on modularity, maintainability, and extensible components.

Roshta — Prescription System   *ASP.NET Core, SQL Server*

- Secure role-based application supporting workflows for doctors and patients.

Tracking App — Task Management   *Vue, Express, MongoDB*

- Task tracking system with status progression and reporting-friendly persistence model.

Education

ALX Africa — Professional Diploma, Software Engineering (*2024–2025*)
Higher Institute of MIS, Kafr El-Sheikh — B.Sc. Management Information Systems (*2018–2022*)