# Mohamad Omran
## Senior Full Stack Engineer

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Dubai, UAE

## Summary

Results-driven Full Stack Engineer with 6+ years of experience architecting and delivering high-performance, scalable web applications for government and enterprise clients. Expertise in enterprise solutions development, AI integration, and cloud infrastructure using AWS and Azure. Demonstrated success building multi-tenant SaaS applications with particular strength in government compliance systems (SFDA, UAE) and client-facing project delivery. Experienced in stakeholder collaboration, requirements gathering, and technical solution presentations.

## Experience

**Senior Full stack Engineer** – 05/2025 – Current
**NxtPhase AI,** Netherlands (Remote)
- Architected and implemented RAG (Retrieval-Augmented Generation) solutions for multiple enterprise clients, enabling intelligent document processing and knowledge retrieval systems.
- Developed a comprehensive marketing analytics dashboard that visualized advertising spend across multiple channels and automated data pipeline integration with LLM for optimization insights.

**Full stack Engineer** – 04/2021 – 05/2025
**Speedlane,** Beirut, Lebanon
- Translated complex business requirements into scalable technical solutions using Node.js, React.js/Next.js, TypeScript, and PostgreSQL while collaborating directly with clients and stakeholders.
- Successfully integrated OpenAI APIs and emerging AI technologies including RAGs, MCPs, and Similarity Search into production applications, positioning the company at the forefront of AI adoption.
- Designed and deployed cloud-native solutions on AWS (EC2, S3, RDS, Lambda) with automated CI/CD pipelines using GitHub Actions and comprehensive performance monitoring through CloudWatch and New Relic.
- Delivered bi-weekly technical presentations on emerging technologies to stakeholders and established reusable component libraries and architectural patterns that improved team efficiency.
- Built high-performance RESTful APIs and responsive user interfaces using TypeScript and Tailwind CSS, implementing event-driven architectures for improved system resilience.

**Senior Software Engineer** – 11/2018 – 03/2021
**Netways,** Riyadh, KSA
- Led technical engagements with high-profile government clients including SFDA and UAE officials, ensuring strict regulatory compliance while delivering enterprise-grade digital transformation solutions.
- Engineered custom React.js applications with Redux state management and developed automated workflows that modernized government service delivery for Arabic-speaking audiences.
- Developed advanced AI-powered chatbot systems using Microsoft Bot Framework and Azure Cognitive Services while implementing comprehensive RTL support for seamless Arabic user experiences.
- Designed secure multi-tenant architectures with Role-Based Access Control (RBAC) and deployed scalable solutions on Azure cloud infrastructure for sensitive government applications.

## Education

**Master of Science in Engineering** – 2019 - 2021
American University of Science and Technology, Lebanon

**Bachelor of Science in Engineering** – 2013 - 2017
American University of Science & Technology, Lebanon

## Certificate

- **Certified Cloud Practitioner, Amazon** - 2022

## Projects

- **SFDA -** Delivered enterprise regulatory compliance platform for Saudi Food and Drug Authority
- **ETHRAI** - An Arabic online platform aimed at enhancing human capital efficiency.
- **TAMM UAE Government -** Developed AI-powered citizen services chatbot for government stakeholders
- **TransplantLyfe** - An online patient support platform designed to connect and empower organ transplant recipients and caregivers.
- **Probable Futures** - A climate-focused platform that visualizes potential future climate scenarios to help inform decision-making and raise awareness.
- **Aboard -** A SaaS for managing complex data and processes (a Kanban system)

## Core Technical Skills

### Front End Engineering

- React.js, Angular (+v2), Next.js, Redux
- Javascript/TypeScript
- TailwindCSS, SCSS
- Data visualization components
- Form validation and state management
- Responsive design and user experience optimization.

### Backend Engineering

- Node.js, Express.js, TypeScript
- RESTful API design and optimization
- AI/ML API integration (OpenAI, Azure Cognitive Services)
- PostgreSQL (schema design, indexing, query optimization)
- Message queues and background job processing
- API performance testing and monitoring

### Architecture & System Design

- Multi-tenant SaaS applications with data isolation
- Event-driven system design
- Modular, extensible platform architecture
- Asynchronous workflow implementation

### Client & Stakeholder Management

- Requirements gathering and technical solution design
- Client presentation and technical communication
- Government compliance and regulatory understanding
- Cross-cultural communication (Arabic/English business environments)
- Technical solution demonstrations and training delivery

### Infrastructure & DevOps

- **AWS Services**: EC2, S3, RDS, Lambda, CloudWatch, VPC, IAM, Route 53, CloudFront, API Gateway, SQS, SNS
- **Azure Services**: App Service, Azure Functions, Blob Storage, SQL Database, Active Directory, Cognitive Services, Bot Framework, Application Insights
- CI/CD pipelines (GitHub Actions)
- Infrastructure monitoring and alerting
- Deployment automation

## Languages

**Arabic:** Native | **English:** Fluent