




Islam Mohamed Mohamed Elsayed

Full Stack Technical Lead | Mobile Solutions Architect

Experienced Technical Lead with **13+ years** of proven success in designing and delivering scalable full stack applications, AI/ML solutions, and enterprise-grade mobile platforms. Specialized in React, Node.js, .NET Core, and Python with strong expertise in integrating Generative AI (GPT, LLaMA, LangChain), AWS AI Services, and cloud-native DevSecOps. Led cross-functional teams across UAE government, banking, and transport sectors, with hands-on leadership in mobile-first architecture, microservices, and AI-powered systems. Arabic native speaker, well-versed in Agile delivery, security compliance, and stakeholder engagement.

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Technical Skills

Programming Languages & Frameworks

- JavaScript (React, Ionic, Angular, Node.js, TypeScript, Vue, jQuery, Backbone)
- Python, C#, .NET Core, Java (Spring Boot, Android SDK)
- HTML5, CSS3, Bootstrap

Mobile Development

- React Native, Cordova / PhoneGap, IBM MobileFirst, Ionic.

Enterprise Applications & ERP

- Oracle E-Business Suite (EBS) – Integration, Customization, and UX/UI Layer Development

AI & Machine Learning

- AWS Bedrock, Amazon SageMaker, AWS Lambda, AWS AI Services (Comprehend, Polly, Rekognition)
- Generative AI technologies including OpenAI GPT, Llama, LangChain
- IBM Watson

Data Analytics & Automation

- Alteryx Designer – Data preparation, blending, and advanced analytics automation

Databases

- SQL Server, MySQL, Oracle, MongoDB, Redis

Cloud & DevOps

- Docker, Kubernetes, AWS Lambda, CI/CD Pipelines

Development Tools & Version Control

- GitHub, Bitbucket, SVN, TFS, Rational Rose

Software Development Methodologies

- Agile (Scrum, Kanban), Waterfall

Selected Projects

- **FAHR AI Assitant** – Developed a secure, scalable Retrieval-Augmented Generation system using OpenAI and FAISS to support HR queries. Integrated Agentic RAG agents for context-aware, multi-turn user interactions. Improved HR automation efficiency and reduced support overhead by 40%.
- **FAHR HR UXUI** – React web application built with Next.js and IBM MobileFirst Platform for the Federal Authority for Government Human Resources, providing HR management and automation solutions.
- **FAHR Mobile App** – React Native app (Android & iOS) built with IBM MobileFirst, offering HR services on mobile.
- **FAHR AI Assistant** – AI-powered virtual assistant integrated into FAHR HR System, enhancing HR automation, employee self-services, and real-time inquiries.

- **Ajman One App** – Mobile app (iOS & Android) developed with React Native and IBM MobileFirst, offering e-wallet services and utility payments for Ajman residents and visitors
- **Himma Web App** – Web application development.
- **RTA Chatbot Project** – Contributed to the development of an **AI-powered chatbot** for the Dubai Roads and Transport Authority (RTA), improving service accessibility and automation.
- **RTA Mobile Suite (Common Shell App)** – Unified platform for multiple RTA apps (Drivers & Vehicles, Corporate, Smart Parking, RTA Dubai) using IBM MobileFirst-based app (Android, iOS, WP, BB).
- **Al Rajhi Bank App** – Cross-platform e-banking application (Android, iOS) and native Windows Phone app for Al Rajhi Bank, KSA.
- **Al Rajhi Takaful App** – Cross-platform e-insurance solution (Android, iOS) for Al Rajhi Takaful, KSA.
- **Al Bilad App** – Cross-platform insurance application (Android, iOS) for Bank Al Bilad, KSA.

Professional Experience

Full stack development Technical Leader | Mobile Application Architect

September 2022– Present

Federal Authority for Government Human Resources

Dubai-UAE

- Led **FAHR Smart App modernization, migrating from Angular 7 to React Native for better performance.**
- **Developed and launched AI-powered virtual assistant**, integrating voice and LLM capabilities.
- **Managed 10 major & 6 minor app releases (4.0.0 – 4.8.0)**, introducing new self-service features for employees and managers.
- **Optimized security & infrastructure**, closing vulnerabilities, renewing SSL/APN certificates, and scaling servers.
- **Created an evaluation model** using Python to assess and validate AI models' performance, ensuring robustness and accuracy before deployment.
- **Developed digital community for Government employees.**
- **Led UATs, stakeholder engagements, and Agile development cycles**, improving product adoption.
- **Managed IBM license renewals, system monitoring, and load balancing optimizations.**
- Designed and implemented scalable **mobile and web applications** for FAHR users.
- Integrated **third-party systems** through web services and APIs.
- Provided **error monitoring and proactive user support** to enhance user experience.
- Led business requirement analysis and collaborated with stakeholders.
- Designed and implemented an enterprise-grade RAG (Retrieval-Augmented Generation) system using OpenAI APIs and vector search for HR knowledge retrieval; integrated Agentic RAG workflow using LangChain agents for dynamic, multi-step employee assistance scenarios.
- **Key Technologies:** React, Redux, Angular, Node.js, MongoDB, .NET Core, Next.js, Python, AI (GPT, Llama, LangChain), Mobile (IBM MobileFirst, Cordova / Phone Gap, React Native).

Full stack development Technical Leader

December 2021 – August 2022

Ajman Ports and Customs Department

Ajman-UAE

- Conducted **detailed analysis** of business requirements and designed **scalable application architectures.**
- Developed a **mobile application** for ports and customs users, enhancing operational efficiency.
- Built an **internal portal** with multiple workflows to streamline business processes.
- Ensured **high user satisfaction** by implementing **error monitoring** and proactive support strategies.
- Integrated external **third-party systems** via web services and APIs for seamless interoperability.
- Collaborated closely with **business owners** to refine requirements and actively participated in key stakeholder meetings.
- **Key Technologies:**
 - **Programming:** JavaScript (TypeScript, AngularJS, Node.js, React, Redux), MongoDB, Redis.
 - **Mobile Development:** IBM MobileFirst, Cordova / PhoneGap, React Native.
 - **Web Technologies:** .NET Core, HTML5, CSS3, JSP, SOAP, RESTful APIs, AJAX, XML, JSON.

Senior Software Engineer
Ajman Digital Department

April 2019 – November 2021

Ajman-UAE

- Conducted **detailed analysis** of business requirements and designed **scalable application architectures**.
- Developed a **Headless CMS** for mobile application content and UI management.
- Installed and configured **MongoDB servers and Replica sets** for high availability.
- Revamped the **e-Ajman Mobile App**, migrating from AngularJS to React Native with improved design and features.
- Developed critical solutions such as **Himma Web App**, **AjmanPay integration**, and **UAE Pass authentication**.
- Assisted vendors with **AI component integration** for Ajman Mobility services.
- Implemented a **caching mechanism** for Mobile CMS using Redis to enhance performance.
- Ensured **high user satisfaction** through proactive **error monitoring** and issue resolution.
- Integrated **third-party systems** via web services and APIs for seamless connectivity.
- Conducted **code reviews** and collaborated with vendors to maintain coding standards.
- **Key Technologies:**
 - **Programming:** JavaScript (TypeScript, AngularJS, Node.js, React, Redux), MongoDB, Redis.
 - **Mobile Development:** IBM MobileFirst, Cordova / PhoneGap, React Native.
 - **Web Technologies:** .NET Core, HTML5, CSS3, JSP, SOAP, RESTful APIs, AJAX, XML, JSON.

Senior Full Stack Developer

July 2015 – March 2019

Roads and Transport Authority

Dubai-UAE

- Led the **merging of multiple RTA mobile applications** into a unified platform.
- Revamped **RTA mobile applications** with improved design, enhanced features, and modern technologies.
- Developed critical **payment solutions** including **Apple Pay**, **ePay**, **mPay**, and **UAE Pass login integration**.
- Assisted vendors with **RTA Smart Mobility services**, providing technical guidance and support.
- Ensured **high user satisfaction** by implementing **error monitoring** and proactive support strategies.
- Integrated **third-party systems** via web services and APIs for seamless interoperability.
- Collaborated closely with **business owners** to refine requirements and actively participated in key stakeholder meetings.
- Conducted **code reviews** and worked closely with the team to maintain high coding standards.
- **Key Technologies:**
 - **Programming:** JavaScript (TypeScript, jQuery, AngularJS, Node.js, React, Redux, Vue, BackboneJS).
 - **Mobile Development:** IBM MobileFirst, Cordova / PhoneGap, React Native.
 - **Web Technologies:** .NET Core, HTML5, CSS3, JSP, SOAP, RESTful APIs, AJAX, XML, JSON.
 - **AI & Cloud Services:** Alexa, AWS Lambda.

Full Stack Developer

May 2014 – June 2015

Intellisc

Cairo- Egypt

- Developed **mobile applications** supporting e-Traffic and public transportation business.
- Optimized **application performance, security, and scalability** by identifying bottlenecks and memory leaks.
- Led **code refactoring and reviews**, improving system performance by over **10x**.
- Mentored **team members** to enhance technical skills and software development best practices.
- Assisted development teams in adopting **best practices for application structure and architecture**.
- **Key Technologies:**
 - **Programming:** Java (Core, JEE, Android SDK), JavaScript, SQL, Oracle 10g.
 - **Mobile Development:** IBM Worklight, Cordova, PhoneGap.
 - **Web Technologies:** HTML5, CSS3, jQuery, AngularJS, JSP, ASP.NET, Material Design, SOAP, RESTful APIs, AJAX, XML, JSON.

Cross-Platform Software Developer

August 2012 – May 2014

E-Business Solutions Enabling Group

Cairo- Egypt

- Designed and implemented **cross-platform applications** for e-banking, e-insurance, and e-trading businesses.
- Developed **prototypes** that secured new contracts for the company.
- Participated in the **full software development lifecycle**, from analysis to deployment.
- Provided **on-site support** and troubleshooting for high-profile clients like **Al Rajhi Bank**.
- Trained new employees on **code standards** and software best practices.
- **Key Technologies:**
 - **Programming:** VB.NET, C# (MVC), Java (Android SDK), JavaScript, SQL, SQLite.
 - **Mobile Development:** Cordova, PhoneGap.
 - **Web Technologies:** HTML5, CSS3, jQuery, JSP, ASP.NET, Material Design, SOAP, RESTful APIs, AJAX, XML, JSON.

Android applications instructor

May 2012 – July 2012

Freelancing

Cairo- Egypt

- Trained two teams on **Android SDK** and advanced **Android application development**.
- Provided **hands-on workshops** covering UI/UX, database integration, and API consumption.
- Assisted students in developing **functional Android applications** as final projects.

Education

B.Sc. in Computer Science, Faculty of Computer and Information Science, Ain Shams University [2008 – 2012]

- **Major:** Information Systems (Very Good)
- **Graduation Project:** Tutor Assistant (Native Android App)
 - Received Excellent grade; selected among 120 projects in the ITIDA competition.
 - Designed for halls, seminars, and sections to assist tutors in attendance tracking, voting, quiz generation, and answer collection.
 - Implemented using Bluetooth technology for seamless communication.

Certifications

Udacity Professional React Developer Nanodegree [2018]

- Studying of React Fundamentals Course and deliver the course project and successfully accepted by the Udacity team (<https://github.com/islammohamed12/reactnd-project-myreads>).
- Studying of React & Redux Course and deliver the course project and successfully accepted by the Udacity team (<https://github.com/islammohamed12/reactnd-project-readable-Udacity>).
- Studying of React Native Course and deliver the course project and successfully accepted by Udacity team (<https://github.com/islammohamed12/MobileFlashCard-Udacity>)

Honors and awards

- **Alteryx Designer Core Certification** — Completed [May 2025].
- **Certificate of Appreciation** from **RTA Smart Service Department** for integrating **UAE Pass** into **RTA Mobile Apps**.
- **Best Snake Game Award (2011)** – Recognized for developing the best **Snake game** in the **Graphics course** at Ain Shams University.
- **Best FIFA AI Game Award (2011)** – Won an award for creating the best **FIFA game AI** in the **Artificial Intelligence course** at Ain Shams University.

Soft Skills

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|-------------------|-----------------|-------------------|
| • Problem Solving | • Communication | • Self-motivation |
| • Teamwork | • Creativity | • Time Management |

- Creativity

- Confidence

- Flexibility

Languages

- Arabic (Native)

- English (Professional Working)

Personal Data

- **Gender** Male
- **Nationality** Egyptian
- **Marital Status** Married