

MOHAMMED IBRAHIM SHALABI

Software Development Manager (Technical Lead) | Frontend | Full-Stack | Digital Twin & 3D Web

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PROFILE

SUMMARY

A Passionate **Software Engineer** and a highly motivated team player with a curious mind-set and a strong technical skill-set.

I work as a **Software Development Manager**, specializing in building and developing scalable web applications, and digital twin experiences and platforms focused on mapping and geospatial data visualizations.

My aim is to ship world-class digital products with extraordinary user experiences that combine functional efficiency with aesthetic appeal.

EXPERIENCE

Software Development Manager (Technical Lead)

ROSHN 🏢 2024 - Present 📍 Riyadh, Saudi Arabia

A giga project under the Public Investment Fund, ROSHN is the Kingdom's leading real estate developer, focused on improving citizens' quality of life

- Led the development of scalable full-stack web applications products and directed innovative 3D digital twin initiatives to deliver immersive, interactive real-estate experiences, elevating the property landscape.

Senior Software Engineer - Data Visualization, Geospatial Intelmatix

🏢 2022 - 2024 📍 Riyadh, Saudi Arabia

A leading deep tech AI company offering Enterprises Agentic AI & cutting-edge Decision Intelligence Solutions that gives a competitive advantage

- Developed scalable, high-performance UIs for Agentic AI and Digital Twin platforms and Geospatial Data Visualization, improving usability and user engagement.
- Translated complex analytics and geospatial insights into clear, actionable product experiences, enabling faster and more confident data-driven decisions.
- Drove R&D to evaluate and adopt modern frameworks, tooling, and visualization techniques, keeping the platform current, efficient, and scalable.

Software Engineer II (SWE II)

General Authority of Civil Aviation (GACA)

🏢 2019 - 2022 📍 Riyadh, Saudi Arabia

The national institution of Saudi Arabia in charge of aviation

- Built and maintained production-grade web applications serving 1M+ annual visitors, with a strong focus on reliability, and usability.
- Delivered multiple aviation applications across diverse use cases, including UAS drone permits, Royal Terminal FIDs, Medical Portal, Pilots Testing System, and the Aviation Standards Licensing System.

Junior Software Engineer (SWE I)

YouPositive 🏢 2018 - 2019 📍 Jeddah, Saudi Arabia

A platform offering online life coaching and counseling through VoIP and messaging, connecting coaches with clients.

- Directed end-to-end product development, aligning priorities with client and stakeholder requirements.
- Delivered VoIP and messaging capabilities that streamlined coach-client communication, reducing friction and improving engagement across the platform.

Software Engineering Intern

Saudia Airlines 🏢 06/2018 - 08/2018 📍 Jeddah, Saudi Arabia

- Implemented IT Flight Operations Applications using a three-tier architecture, Backend & Frontend with Python & Django framework.

EDUCATION

Bachelor of Science in Computer Science

King Abdulaziz University 🏢 2015 - 2019 📍 Jeddah, Saudi Arabia

SKILLS

Programming Languages & Frameworks

TypeScript	JavaScript	Python	
React	Next.js	Deck.GL	NestJs
Node.js	Django	Flask	FastApi
NestJS	Express.js	Fastify	

ACHIEVEMENTS

-  **First Place Winner**
Filmathon - Saudi Film Commission 2023
-  **First Place Winner**
Apps World Hackathon - Badir 2018
-  **Second Place Winner**
Dev Fest Hackathon - Google 2019
-  **Second Place Winner**
Best Senior Project - Takaful 2019

CERTIFICATION / COURSES

Certificate of Completion / Excellence Front-End Programming Intensive Course

A 40-hours training, and I've been recognized as one of the top three and awarded certificate of excellence. By **CODED** and **SFCSP**

Certificate of Completion / Excellence User Experience (UX) / User Interface (UI) Design Intensive Course

A 20-hours training, and have won the first place as the best UX UI Design. By **Aqwaz** and **SFCSP**

Certificate of Completion Full Stack Developer Track

Python, debugging techniques and problem solving concepts, OOP and series of mini projects and exercises. By **Udacity**

PROJECTS

Senior Project: Bayan

🏢 2018 - 2019 📍 Jeddah, Saudi Arabia

Bayan is a DNA profiling tool that captures and records specific genetic markers from DNA samples to determine sample origin and enable high-impact outcomes: diagnosing inherited disorders, establishing paternity, and supporting criminal investigations by linking or excluding individuals using forensic evidence

Skills :

- High Performance Computer Integration Aziz HPC
- Parallel Programming
- Performance Optimization
- Dedicated Server / On-Prem Deployment
- Full SDLC / Agile Delivery, API Development