Seif Omran

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Frontend Engineer focused on React/Next.js and cross-platform web-mobile delivery with CapacitorJS. Experienced in shipping production features, solving framework compatibility issues, and building performant interfaces for data-heavy products.

Education

Faculty of Computer Science, Ain Shams University
2020-2024

- Department: General
- GPA: 3.1

Skills

- Frontend: React.js, Next.js, Tailwind CSS, SASS, Bootstrap, React Query, Redux Toolkit
- Mobile and Cross-Platform: CapacitorJS, Android (Java), WebView-native integration
- Backend and APIs: Node.js, Express, RESTful API development, SignalR
- Databases: PostgreSQL, MongoDB, database design, normalization, ACID transactions
- Languages: JavaScript, TypeScript, C, C++, Python, Java
- Testing and Delivery: Jest, Maestro, Azure DevOps, YAML-based test flows, CI/CD pipelines
- Automation Architecture: Agentic workflows, modular pipeline design, self-healing execution, validation gates
- Foundations: Data structures and algorithms

Experience

Software Engineer (Frontend), SalamDev

Apr 2025 - Present (Full-time)

- Built an agentic mobile test automation platform that converts Azure DevOps test assets into executable Maestro YAML flows, significantly reducing manual test authoring effort.
- Engineered a modular TypeScript pipeline spanning ingestion, planning, generation, execution, and self-healing, with health checks and validation gates to improve test reliability and release speed.
- Led development of a core navigation feature by integrating HERE Navigation SDK using native Android (Java).
- Designed and implemented seamless communication between native Android layers and Capacitor WebView, embedding native navigation views into the web interface.
- Implemented core cross-platform features for web and mobile using Next.js and CapacitorJS, sharing a single monorepo codebase.
- Resolved compatibility issues between Capacitor and Next.js in server-dependent environments, enabling a fully static Next.js mobile-optimized build.
- Ensured smooth and performant user experience by orchestrating interactions between web and native components.
- Led R&D and implementation of a self-hosted map tile server using TileServer GL, processing and serving map tiles for USA, Canada, and Egypt, and integrating it with the frontend application.
- Building an AI-powered smart mobility platform addressing real-world commuting challenges in Canada.

Frontend Developer, Future of Egypt (Egyptian Armed Forces)

Dec 2024 - Nov 2025 (Part-time)

- Contributed to modernization of an internal enterprise system by redesigning and optimizing frontend architecture.
- Applied clean architecture principles and design patterns, improving readability, maintainability, and scalability.
- Refactored and optimized existing frontend components to improve performance and long-term maintainability.
- Developed complex, data-driven reports with dynamic and interactive visualizations for internal stakeholders.
- Improved frontend performance and reduced load times for high-traffic, data-intensive pages.

Projects and Freelance

Lam7a AI | Full-Stack AI Chat Platform

- Built an Arabic-first, right-to-left AI chat application with a React and TypeScript frontend and a NestJS backend.
- Developed the frontend chat experience with streamed responses, conversation history, AI mode selection, image input, and account balance views.
- Implemented a provider-agnostic AI gateway and usage-based billing with PostgreSQL ledger entries, atomic balance reservations, and request settlement.
- Used: React 19, TanStack Router, TanStack Query, Tailwind CSS, NestJS, PostgreSQL, TypeORM, Redis, Supabase Auth, Vercel AI SDK

Smart City (Robbery and Fire Detection Using AI)

Jul 2024

- Built a complete AI system to detect and alert robbery and fire incidents.
- Used: Keras, OpenCV, TensorFlow, Node.js, Express, PostgreSQL, RabbitMQ, ReactJS, React Query

Supercard Platform

Aug 2024

- Built an e-commerce platform specialized in selling digital products and handling incoming orders via external APIs.
- Used: Node.js, TypeScript, Express, PostgreSQL, React, React Query, React Router, Redux Toolkit

Ich7en Platform

Mar 2024

- Built an e-commerce platform specialized in selling game gift cards and handling incoming orders via external APIs.
- Used: Node.js, TypeScript, Express, PostgreSQL, React, React Query, React Router, Redux Toolkit

Machine Learning Model for Predicting Game Popularity

May 2023

- Built an end-to-end ML pipeline including preprocessing, data cleaning, feature engineering, and feature selection.
- Applied models such as linear regression, logistic regression, decision tree, random forest, and others for both regression and classification tasks.
- Used: Python, data preprocessing, feature engineering, machine learning models

FOS Operating System

Dec 2022

- Built core OS modules including dynamic allocator strategies, paging and page table management, user heap, kernel heap, fault handler, and semaphores.
- Used: C
- GitHub: https://github.com/seifomran132/FOS-Operating-System-Project-FCIS

Sprints Job Placement Program, MCIT Egypt

Aug 2022

- Completed professional job placement training from Sprints, sponsored by the Ministry of Communications and Information Technology (MCIT), Egypt.
- Learned teamwork and Agile practices.
- Built an e-commerce application as a graduation project with teammates.