

Ahmed Hatem Omran

Software Engineer

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SUMMARY

Full Stack Software Engineer with hands-on experience building production-ready web applications using React, Node.js, Express, Django REST Framework, and PostgreSQL. Experienced in designing secure REST APIs, authentication systems, payment integration, real-time applications, AI-powered features, and deploying scalable applications.

Professional Experience

Information Technology Institute (ITI)

Full Stack Web Developer Intern - 4-Month Intensive Code Camp

July 2025 – Dec

AgriLink - Agricultural Marketplace

[GitHub](#)

Technologies: React, Node.js, Express.js, MongoDB, Tailwind CSS

- Developed a full-stack agricultural marketplace as the ITI graduation project, enabling farmers and buyers to connect efficiently.
- Built secure REST APIs with JWT authentication, Helmet, and rate limiting to enhance application security.
- Implemented geospatial features using React-Leaflet and integrated Cloudinary for cloud-based media management.
- Developed responsive user interfaces and optimized data validation using Formik and Yup.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, SQL, C++

Frontend: React.js, Next.js, Angular, HTML5, CSS3, Tailwind CSS, Material UI, Vite

Backend: Node.js, Express.js, Django REST Framework, NestJS, REST APIs, Socket.io, JWT Authentication

Databases: PostgreSQL, MongoDB, MySQL, SQLite

Cloud & Deployment: Vercel, Render, Neon, Cloudinary

Tools & Fundamentals: Git, GitHub, Postman, Agile, Unit Testing, Web Security, Object-Oriented Programming (OOP), Data Structures

SELECTED PROJECTS

QuickShow - Online Ticket Booking Platform

[Live Demo](#) | [GitHub](#)

Technologies: React, Node.js, Express.js, MongoDB, Stripe, Clerk, Inngest

- Architected and developed a production-ready ticket booking platform with secure authentication, online payments, and an administrative dashboard.
- Designed a concurrent seat reservation system using database transactions and locking mechanisms to prevent race conditions during simultaneous bookings.
- Integrated Stripe Payments and Webhooks to securely verify transactions and automate booking confirmation.
- Built an event-driven workflow using Inngest to automatically release expired reservations and improve booking reliability.

Gym Tracker – AI Fitness Platform

[Live Demo](#) | [GitHub](#)

Technologies: React, TypeScript, Django REST Framework, PostgreSQL, Google Gemini AI

- Developed a full-stack fitness platform enabling users to track workouts, monitor progress, manage nutrition, and analyze training performance.
- Implemented secure authentication using JWT and Google OAuth with role-based access control for users and administrators.
- Integrated Google Gemini AI to generate personalized nutrition recommendations based on users' calories and macronutrient goals.
- Built interactive dashboards featuring workout analytics, exercise history, progress tracking,

and muscle heatmap visualization.

InstaLeh - Real-time Social Media Platform

[GitHub](#)

Technologies: React, Node.js, MongoDB, Socket.io, Clerk

- Developed a real-time social media platform supporting posts, comments, likes, and instant messaging.
- Implemented secure authentication, user profile management, and real-time communication using Socket.io.
- Optimized state management and real-time synchronization to minimize unnecessary re-renders.

EDUCATION

October 6 University

2016 – 2022

Bachelor of Electrical Power and Machines Engineering

LANGUAGES

Arabic (Native), English (Professional)