

# Mohamed Galal Alraggal

## Full Stack Software Engineer

mohamedalraggal@yahoo.com | Alexandria, Egypt | +20 106 757 08 00 | LinkedIn | GitHub | Portfolio

### Summary

---

Full-stack developer with 4+ years of experience architecting backend systems (PostgreSQL, Prisma, Node.js, REST APIs) and building responsive, performant frontends (React, Next.js, TypeScript). Delivered 15+ freelance projects spanning legal tech, e-commerce, and AI integrations, and led a development team through a government-sponsored software initiative (DEPI). Owns features end-to-end, from data-model design through production deployment.

### Professional Experience

---

**Freelance Full Stack Software Engineer** | Remote 2022 – Present

- Delivered 15+ full-stack web applications across e-commerce, healthcare, legal tech, and AI, owning each build from database design through deployment
- Built and integrated REST APIs for third-party services, including AI models, payment gateways, and authentication providers
- Optimized React/Next.js frontends for load performance and responsive design across devices
- Ran client engagements end-to-end — requirements gathering, estimation, and delivery — on projects ranging from single features to full platforms
- Worked within distributed teams using Git-based workflows and agile sprints

**Frontend Developer & Team Leader** | Digital Egypt Pioneers Initiative (DEPI) April 2024 – Sept 2024

- Led a team of developers through a 6-month, government-sponsored software development program under Egypt's Ministry of Communications and Information Technology (MCIT)
- Built multiple full-stack applications using React, Next.js, and TypeScript
- Ran sprint planning and code reviews, applying agile practices across the team's delivery cycle

### Technical Skills

---

- **Languages & Frameworks:** TypeScript, JavaScript (ES6+), React.js, Next.js, Node.js, Express.js
- **Databases & ORMs:** PostgreSQL, MongoDB, Prisma ORM
- **API & Integrations:** REST API design, third-party & AI API integration, authentication flows, payment gateway integration
- **Frontend & Styling:** Tailwind CSS, Bootstrap, Redux, Context API, Responsive Design
- **Tools & Platforms:** Git, GitHub, Vercel, VS Code, Webpack, npm

### Key Projects

---

**eLaw — Legal Practice & Case Management Platform** Live Demo

*Next.js · Node.js · PostgreSQL · Prisma · TypeScript*

- Designed a 90+ model PostgreSQL schema with Prisma spanning the full case lifecycle — cases, hearings, appeals, cassation, and execution
- Built a UAE FTA-compliant billing engine (proformas, tax invoices, credit/debit notes, retainers) with an append-only ledger for auditable client balances
- Automated staged fee-agreement billing — fixed, milestone, contingency, and hybrid models — generating payment schedules as cases progress
- Developed AML/sanctions-screening and conflict-of-interest APIs, each with its own match-review and decision workflow
- Implemented role-based access control and a centralized audit log spanning every entity in the platform

- Shipped execution-stage tracking (travel bans, asset inquiries, auctions) and bilingual (AR/EN) client billing emails over email and WhatsApp
- Delivered the Next.js/React frontend consuming these APIs, including case, billing, and compliance dashboards

**eLaw Landing Page**

Next.js · GSAP · Three.js · ScrollTrigger

Live Demo

- Built a high-performance marketing landing page for the eLaw platform using Next.js and server-side rendering
- Implemented scroll-driven animations with GSAP/ScrollTrigger and interactive 3D elements with Three.js
- Optimized for SEO and Core Web Vitals with a fully responsive layout

**Full-Stack E-Commerce Website**

React · Next.js · Node.js · MongoDB

Live Demo

- Built a full-stack e-commerce platform for fashion brands with Next.js SSR for performance and SEO
- Designed a Node.js REST API backed by MongoDB for a flexible product catalog and user data
- Implemented cart, product browsing, and brand-specific storefronts with a responsive UI

**AI-Powered Solution Platform**

React · Next.js · TypeScript · AI Integration

Live Demo

- Built a web application integrating multiple AI services for automated problem-solving
- Implemented authentication and a real-time chat interface for AI interactions
- Connected frontend and AI processing services through a REST API layer

**Restaurant Order Management System**

Next.js · TypeScript · Tailwind CSS

Live Demo

- Built an order management system with real-time tracking and kitchen synchronization
- Integrated multiple payment methods with secure transaction processing
- Designed a responsive admin dashboard consuming 30+ REST API endpoints

**E-Commerce Platform with Admin Panel**

React.js · Redux · Bootstrap

Live Demo

- Built an e-commerce platform with authentication, product management, and an admin panel
- Implemented a shopping cart with real-time updates and inventory tracking

**Recipe Platform & Meal Planner**

React · Bootstrap · Context API

Live Demo

- Built a recipe platform with personalized meal planning based on calorie targets
- Implemented authentication with profile management and image upload
- Designed a meal-generation algorithm integrated with a nutritional database, managing state via Context API

Education

**Frontend Web Development Certificate** | Digital Egypt Pioneers Initiative (DEPI),  
Ministry of Communication & Information Technology

2023 – 2024

**Bachelor of Laws (LLB)** | University of Alexandria, Egypt

Sept 2018 – May 2022

Skills

- **Problem-Solving:** Analytical thinking, debugging complex issues, algorithm optimization
- **Communication:** Client presentations, technical documentation, cross-functional collaboration
- **Leadership:** Team management, mentoring junior developers, project coordination
- **Adaptability:** Quick learning of new technologies, agile methodologies, changing requirements
- **Time Management:** Meeting deadlines, prioritizing tasks, managing multiple projects
- **Attention to Detail:** Code quality assurance, UI/UX precision, thorough testing

## Certifications & Professional Development

---

- **Software Development Professional Certificate** - Digital Egypt Pioneers Initiative (2024) [View Certificate](#)
- **Team Leadership Certificate** - DEPI Track (2024) [View Certificate](#)
- **JavaScript Algorithms and Data Structures** - freeCodeCamp (2024) [View Certificate](#)
- **Business English Certificate** - Professional Communication (2024) [View Certificate](#)