

Ahmed Fathy

Computer Engineer – Web Developer

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EXPERIENCE

- **Al Nada Scientific Office** | *Web Developer (Freelance)* Cairo, Egypt | June 2022 – 2024
 - **Full-Stack Development:** Built custom ERP web application using React.js and PostgreSQL to replace legacy spreadsheet-based business processes.
 - **Frontend Engineering:** Designed responsive user interface with Redux state management and RESTful API integration.
 - **Deployment:** Configured Electron-based desktop deployment for local server usage.

STUDENT ACTIVITIES

- **IEEE** | *UI/UX Designer - Frontend Team Leader* Cairo | Oct 2025 – Present
 - **Leadership:** Architected intuitive user interfaces and optimized user journey protocols for internal platforms.
- **Technical Center for Career Development (TCCD)** | *Frontend Developer* Cairo | June 2025 – Present
 - **Development:** Engineered HR dashboard for event tracking and spearheaded optimization of the official TCCD web.
- **Physics Helping District (PhD)** | *Team Leader* Cairo | June 2022 – 2024
 - **Mentorship:** Led peer tutoring initiative in electronics, achieving measurable academic improvement.

EDUCATION

- **Cairo University, Faculty of Engineering** Giza, Egypt
 - *B.Sc. in Computer Engineering; GPA: 3.6* 2023 – 2027

WEB DEVELOPMENT PROJECTS

- **Hankers (Social Platform)** | *Microservices, TypeScript, Docker, CI/CD* Source Code | 2025
 - **Scalable Microservices Architecture:** Designed a distributed system using **Microservices** and **TypeScript** to decouple services and ensure scalability.
 - **DevOps Automation:** Implemented **CI/CD pipelines** and **Docker** to automate testing and reliable delivery of services.
- **Tactic (Robotics & AI)** | *Real-Time Systems, WebSockets, Embedded* Source Code | 2024
 - **Real-Time Messaging System:** Engineered a low-latency **WebSocket** communication layer to integrate a web dashboard with embedded hardware.
 - **Reliability:** Ensured reliable message delivery and system synchronization between the browser interface and the robotic unit.
- **NexaMart** | *E-commerce Solution, Full-Stack* Source Code | 2025
 - **Stack:** Next.js (TypeScript), Redux Toolkit, Laravel 11, and MySQL.
 - **Functionality:** Implemented secure authentication (Sanctum), shopping cart logic, real-time order processing, and administrative analytics dashboard.
- **Tayseer-Web** | *Corporate Web Solution, Next.js* Source Code | 2024
 - **Deployment:** Deployed corporate website utilizing Next.js framework and TypeScript.
 - **Performance:** Maximized performance via Server-Side Rendering (SSR) and strict static typing for reliability.
- **Company Manager App – Al Nada Scientific Office** | *ERP System, React & PostgreSQL* Source Code | 2024
 - **Tech Stack:** React.js, Redux, Express.js, Prisma, PostgreSQL, Electron for desktop deployment.
 - **Business Solution:** Developed ERP application for Al Nada Scientific Office managing customers, suppliers, inventory, and sales records.
 - **Deployment:** Packaged application with Electron for local server deployment, enabling offline usage.

TECHNICAL SKILLS

- **Core Concepts:** OOP, SOLID Principles, Design Patterns (Factory, Strategy, Singleton), Microservices Architecture, Clean Code
- **Integration & Backend:** RESTful APIs, GraphQL, WebSockets (Messaging), JSON/XML Data Mapping
- **DevOps & Tools:** CI/CD Pipelines, Docker, Git, Linux (Fedora)
- **Languages & DBs:** TypeScript, Python, SQL (PostgreSQL/MySQL), Node.js