

# 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)** | *Full-Stack Engineering* Source Code | 2025
  - **Architecture:** Built scalable social platform using Microservices principles, React.js, and TypeScript.
  - **Frontend:** Implemented responsive UI design and asynchronous API integration via AJAX.
  - **DevOps:** Established CI/CD pipelines and containerized services using Docker for consistent deployment.
- **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.
- **Interactive Orrery – NASA Space Apps Hackathon** | *3D Space Simulation, React.js* Source Code | Oct 2024
  - **Hackathon Project:** Developed during NASA Space Apps Challenge 2024, simulating orbital mechanics and near-Earth object trajectories using React.js and Three.js.

## TECHNICAL SKILLS

- **Frontend Development:** React.js Framework, Next.js, TypeScript, Redux State Management, Tailwind CSS, Material-UI Components, Three.js Graphics
- **Backend & Database Systems:** Node.js Runtime, Express.js Framework, Laravel PHP, RESTful APIs, GraphQL, PostgreSQL, MySQL, MongoDB, Prisma ORM
- **DevOps & Development Tools:** Docker Containers, Git Version Control, CI/CD Automation, Linux Administration, API Testing, Cloud Deployment