

Mostafa Hesham

Software Engineer

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📄 PROFILE

Software Engineer with hands-on experience delivering secure full-stack solutions, ERP systems, and mobile applications. Skilled in React, Node.js, and cloud technologies with a proven track record of optimizing data-driven systems for organizations such as the Central Bank of Egypt.

📁 PROFESSIONAL EXPERIENCE

- Frontend Developer** 12/2024 – Present
Central Bank of Egypt (EgyCash)
 - Developed and deployed a **secure full-stack ERP system** for nationwide cash and gold logistics.
 - Built modules for **HR, Finance, and Affairs** using **React.js, Node.js, MongoDB**.
 - Designed **real-time dashboards & analytics** (React Table, Chart.js) to support data-driven decisions.
 - Optimized **MongoDB indexing and aggregation**, reducing query latency for high-volume data.
 - Delivered **RESTful APIs** and **responsive UIs** aligned with stakeholder requirements.
- Full-Stack Developer (Freelance)** 04/2025 – 10/2025
ShopMart - E-commerce Platform
 - Built full-stack e-commerce platform** using Next.js 14, React, TypeScript, MongoDB, and Tailwind CSS with server-side rendering and optimized performance.
 - Implemented multi-provider authentication** with NextAuth.js, OAuth integration (Google & Apple), JWT tokens, and role-based access control for admin/user roles.
 - Integrated RESTful APIs** with server-side data fetching and client-side state synchronization, implementing filtering, sorting, pagination, and real-time updates.
 - Created dynamic routing** with middleware-protected pages, URL-based filtering, and utilized Next.js features including SSR, server actions, and route protection middleware.
 - Integrated Stripe payment gateway** with checkout sessions, webhook handlers, order processing, and Telegram bot API for automated real-time order notifications.
 - Developed admin panel** with full CRUD operations, complex product variant management (color/size/SKU), Cloudinary image upload, and inventory tracking system.
- NodeJs Developer** 01/2023 – 05/2023
Freelance
 - Created **Discord bots** with **Node.js, Discord.js, Web3.js** for blockchain trade data.
 - Integrated **image processing** to enhance trade-sharing features.
 - Applied **testing, debugging, and deployment best practices** for production-ready code.
- Android Application Development Intern** 10/2020 – 03/2021 | Sheikh Zayed, Egypt
Bosta
 - Built Android apps with **Java, Kotlin, Retrofit, Glide** in **Agile** team environment.
 - Ensured cross-device performance using **Android Studio, Genymotion**.
 - Collaborated with **UX/UI designers** and used **Git** for version control.

🎓 EDUCATION

Bachelor's degree in computer Science (software engineering) 09/2016 – 08/2020
Modern Science and Arts University 📍

🧠 SKILLS

Programming & Frameworks: JavaScript , TypeScript | React.js, Next.js, Node.js, Express.js | Android (Java, Kotlin), Firebase

Databases: MongoDB, MySQL, Microsoft SQL Server

Tools & Platforms: Docker, AWS (Cloud), Git, Selenium (Java), Chart.js, React Hook Form

Methodologies & Certifications: Agile, SDLC, Scrum, Route

📁 PROJECTS

- Carpooling App** 09/2019 – 07/2020
Developed for MSA&MUST Universities
 - Built an **Android app (Java, Firebase)** for student carpooling with **real-time route optimization**.
 - Applied **data analysis** to recommend best routes, achieving high user adoption and positive feedback.
- Cinema Management System** 05/2019 – 08/2019
 - Developed a **web-based ticketing platform** using **HTML, CSS, JS, PHP, MySQL**.
 - Automated **seat allocation and scratch-card authentication** with integrated **Selenium Java testing**.

🌐 LANGUAGES

English: Fluent | **Arabic:** Native