Muhammad Gamal Ezzat

Software Engineer

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Objective

Full Stack / Backend Engineer with hands-on experience building scalable systems, secure integrations, automation workflows, and real-time features using Node.js, MongoDB, React, and cloud services. Proven ability to deliver business-impact solutions — payment integrations, anti-cheating systems, analytics dashboards, and attendance tracking — with measurable results. Passionate about high-quality engineering, system design, and solving real problems at scale.

Education

Bachelor of Computer Engineering, *El-minya University*
- Final Year Project: Arabic Sign Language Translator using **MediaPipe**, **OpenCV,** and **Neural Networks**.
- Relevant courses: Operating Systems, AI, Networks, Embedded Systems, Data Structures ,UI/UX , Web Development.

Experience

Full-Stack Developer, *English Express* — Apr 2025 – present — Cairo, Egypt (Remote)
- Designed and built a MongoDB-based assistant logs system tracking 10K+ correction events/month with sub-50ms query performance.Implemented indexed queries and pagination, reducing load times by 60%..
- Developed the **"Ask the Teacher"** real-time Q&A module, boosting student–teacher interaction and engagement by **60%**.
- Integrated **Zoom API** with secure token validation, blocking unauthorized access and improving attendance accuracy by **40%**.
- Engineered a highly secure **PDF management & anti-cheating system** (no screenshots, printing, or downloads) with instant admin alerts, reducing cheating attempts by **90%**.
- Designed a backend **attendance analytics engine**, improving reporting accuracy and user experience across platforms.
- Integrated **WhatsApp automation** for class updates, deadlines, and parent reporting, reducing manual work by **70%**.

Software Engineer, *Makkah Yard* — Aug 2025 – Present — Makkah ,Saudi Arabia
- Integrated **Mada, MasterCard, and Visa payment gateways**, reducing processing fees by **1.4%** and saving the business ≈ 67,000 SAR annually.
- Built an **automated renewal notification system** (SMS + WhatsApp + email) that reduced manual follow-up work by **80%** and increased renewal rates.
- Developed a **WhatsApp AI chatbot** for subscription inquiries, reducing customer support load by **40%**.
- Improved subscription flow UX, contributing to **1,000+ new subscriptions in 2 months**.
- Built a full **employee attendance management system** integrated with **ZKTeco biometric devices**, tracking attendance, holidays, and shifts according to Saudi labor regulations.
- Added yearly attendance analytics dashboards, helping reduce employee absenteeism by **15%**.
- Customized the admin panel with **multi-role access**, improving efficiency for operations and management teams.

React Frontend Developer, *Jeetroom* — Nov 2023 – Jan 2024 — Saudi Arabia (Remote)
- Developed responsive UI components for a property rental platform similar to Airbnb.
- Integrated Figma-based designs into production-ready React.js interfaces using MUI.
- Built property listing filters, booking workflows, and user dashboards.
- Contributed to Agile sprints, managed tasks using Jira, and optimized frontend performance.

Web Developer Intern, *Codsoft* — Aug 2023 – Oct 2023 — Cairo, Egypt (Remote)
- Built and optimized UIs using **React.js** and **Next.js** with responsive design .
- Refactored reusable components and improved routing and code maintainability.
- Collaborated with designers to translate UI/UX mockups into functional interfaces.

Technical Skills

Backend
- Node.js, Express.js (REST APIs serving 10K+ users)
- MongoDB (schema design, aggregation pipelines, indexing)
- Real-time Systems (WebSockets, polling, server-sent events)
- API Integrations (Zoom, WhatsApp, Stripe, biometric devices)

Frontend
React.js, Redux, Next.js, Material-UI, Tailwind CSS, Bootstrap.

Projects

Doctor Appointment Booking System | MERN Stack, *GitHub Link* ⧉
A full-featured booking platform with role-based dashboards for patients, doctors, and admins.
- Implemented JWT authentication, doctor availability, and appointment scheduling logic.
- Integrated email reminders and cancellation workflows.
- Built dynamic filters by specialty, location, and time slot.
- Designed with future Stripe payment support and admin analytics in mind.

E-commerce website | HTML, CSS, Bootstrap, NodeJS, MongoDB, *GitHub Link* ⧉
- Built a full-stack online store using Express and MongoDB (**MVC** architecture).
- Implemented token-based authentication with hashed passwords and CSRF protection.
- Integrated **Mailjet** for automated email confirmations and **Stripe** for online payments.
- Designed a responsive UI using **Bootstrap**, and implemented secure session-based cart and checkout logic.

Full Stack Food Delivery | React.js, Redux, Tailwind, FireBase, *GitHub Link* ⧉
- Developed a dynamic food ordering app with Google Authentication and admin dashboard.
- Users can browse meals, manage a cart, and place orders.
- Admins can add/edit meals stored in Firebase.
- Used Tailwind CSS + MUI for a mobile-friendly, visually appealing UI.

CodePen Clone | React.js, Redux, Code Mirror,Google Auth, *GitHub link* ⧉
- Developed a real-time code editor with **React.js**, **Redux**, and **Firebase**, featuring user authentication, and live code previews.
- Used **CodeMirror** for tabbed editing, with responsive layout and real-time rendering.
- Included search and tagging features for code snippets, and a user dashboard.

Courses

Master the Coding Interview: Data Structures + Algorithms, *Udemy* ⧉

cs50, *Harvard University*

Advanced Full-Stack Web Development, *Udacity* ⧉

React Development nanodegree, *Udacity* ⧉

NodeJS - The Complete Guide (MVC, REST APIs, GraphQL), *Udemy* ⧉

Military Status

Completed military service   Jan 2024 – Mar 2025

Volunteering

IEEE, *Technical Support Team*   2020 – 2021
- Mentored 20+ students in **C programming** and **Arduino** basics.
- Helped participants program **grip-and-go robots** for competitions.