Mahmoud Gamal

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SKILLS

Technical Skills:

- **Frontend**: React.js, Next.js, JavaScript, TypeScript, Redux Toolkit, Tailwind CSS, Bootstrap, jQuery
- **Backend**: Node.js, Express.js, NestJS, REST APIs, WebSockets, JWT, OAuth
- **Databases**: MongoDB, PostgreSQL, Prisma, Mongoose, SQL
- **DevOps & Tools**: AWS (EC2, S3), Git, GitHub, CI/CD, Bash Scripting
- **Software Principles**: SOLID Principles, OOP, Design Patterns, Agile Methodologies

Soft Skills: Teaching, Problem Solving, Communication, Adaptability, Teamwork, Creativity

SUMMARY

4+ years of experience in building scalable web applications with **MERN/PERN stacks**, **RESTful APIs**, and **cloud-native solutions**. Expertise in **React.js**, **Node.js**, **TypeScript**, and **AWS** deployment. Passionate about optimizing performance, security, and user experience.

INTERNSHIPS

ICC - R1-23/24 Front-End Cross Platform   Information Technology Institute (ITI)
July 2023 – Nov 2023 (4 months)

- Developed **"JUNO"**, an interactive educational game using **jQuery, Bootstrap, and CSS3**.
- Collaborated in an **Agile team** to deliver a responsive, cross-platform front-end solution.

Advanced Full-Stack Web Development 2022   Udacity
Dec 2022 - Feb 2023 (3 months)

- Built and deployed a **full-stack application on AWS**, integrating **PostgreSQL, Express.js, and CI/CD pipelines**.
- Developed a **RESTful API** with secure authentication (JWT) and optimized database queries for performance.

Web Development Professional TRACK 2022   Udacity
Oct 2022 - Dec 2022

- Working on server-side REST APIs, NODE JS, express,
- Agile mindset

Front-end Developer   Information Technology Institute (ITI)
Jun 2022 - Jul 2022 (1 month)

- HTML/CSS development and managing the entire front-end using Bootstrap and
- JavaScript. Some experience with React and wireframing.

EDUCATION

Bachelor of Computer Science | Assiut University

- Graduated with Good honors.
- Relevant coursework: Algorithms, Data Structures, Database Systems, Web Development.

KEY PROJECTS

Sukoon E-Commerce Platform (React, TypeScript, NestJS, MongoDB)
- Built a full-stack e-commerce platform with Arabic language support, featuring product browsing, cart management, **order processing**, reviews, and wishlists.
- Implemented a responsive React frontend with lazy-loaded components, context providers (Auth, Store, Cart), and React Router for pages like Home, Checkout, and **Admin Dashboard**.
- Developed a **NestJS** backend with REST APIs for authentication (JWT, **Google/Facebook OAuth**), product management, and **category hierarchy**, integrated with MongoDB and **Cloudinary**.
- **Managed project** using **Notion** for task tracking, sprint planning, and client collaboration, ensuring timely delivery of localized features like a floating WhatsApp button and **payment gateways**.

Image Subscription Platform (React, NestJS, MongoDB, Stripe)
- Built a scalable SaaS platform with role-based access (RBAC).
- Integrated Stripe payments, reducing checkout failures by 25% via optimized transaction flows.
- Secured authentication using JWT Passport + OAuth (Google/Facebook) and implemented real-time email notifications.

FreshChat – Real-Time E-Commerce Chat App (NestJS, React, WebSockets, MongoDB)
- Developed a **real-time messaging system** with **Socket.io**.
- Enhanced security via **JWT authentication** and **crypto-encrypted passwords**.
- Implemented **user presence tracking** (online/offline) and **message history sorting**.

Cisco E-Commerce Platform (React, TypeScript, Prisma, MongoDB)
- Delivered a **full-stack e-commerce site** with **JWT authentication** and **admin dashboard**.
- Improved query performance using **Prisma ORM** and optimized MongoDB indexing.

School Management System (React, Redux, PostgreSQL, Express)
- Designed a **multi-role system** (Admin/Teacher/Student) with **PostgreSQL optimization**.
- Implemented **Redux for state management**, ensuring seamless data flow across components