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Objective:

Aspiring software engineer with strong foundations in full-stack web development, algorithms, and real-time systems. Seeking a full-stack development internship to apply my skills in JavaScript, React, Node.js, and Java, while contributing to impactful software projects and growing in a fast-paced environment. Experience.

Embedded Systems & IoT

- **Embedded Systems Diploma at Amit Learning (2025)** – Studying microcontroller programming, real-time systems, and embedded applications.
- Developed a **Smartwatch Prototype** using Assembly, focusing on low-level hardware programming and optimization.
- Created a **Calculator using Verilog**, capable of performing arithmetic operations from -3 to 3, with hardware-based implementation.

Software & Web Development

- Created a **Database System for a Gym** using SQL, designing efficient data storage and retrieval methods.
- Designed an **Alien Invasion Game** using Data Structures and Algorithms (C++), optimizing performance and resource management.
- **OS Scheduler Project (C)** – Implemented Round Robin, SJF, and Priority Scheduling using queues and linked lists. Focused on process queue management, context switching, and CPU utilization optimization.
- **Developed a Collaborative Text Editor (Java, Spring Boot, and WebSockets)**, enabling real-time editing and synchronization between multiple users with efficient session handling and conflict resolution.
- Built a **Flowchart Creator for Kids** using Object-Oriented Programming (C++), improving educational interactivity.
- **Full Web Development Bootcamp (udemy, In Progress)** – Covering HTML, CSS, JavaScript, React, Node.js, and database management.
- Developed an **E-commerce System Website Project** using Java.

Featured Front-End Projects

- **Weather App** - Fetches live weather data using the OpenWeather API (HTML, CSS, JavaScript).
- **Task Manager App** - A CRUD-based task management system (React, Firebase).
- **Portfolio Website** - Personal website showcasing my skills and projects (HTML, CSS, JavaScript).

Leadership & Real-World Experience

- **Head Coach of the Egyptian Powerlifting Team** – Led training programs, coached national-level athletes, and managed team strategies.
- Worked as a **Professional Video Editor** for fitness influencers, producing high-quality content.
- Worked as a **Freelance Front-End Developer** on **5+ projects** via Upwork and Freelancer, focusing on responsive design, landing pages, and e-commerce front ends.
- **3rd Place Winner – TCCD Research Competition (2025)**
BlackBox Team | Technical Conference for Creative Development (Career Center, Cairo University)
 Conducted a comprehensive case study analyzing airplane failure incidents from 1972 to 2025. The project involved statistical analysis, historical data modeling, and presenting actionable insights to improve aviation safety standards.
- **Distribution Manager – Resala Charity Organization** (*Dec 2023 – Jan 2024*)
 Led distribution efforts in a community outreach campaign.

Education

Undergraduate in Faculty of Communications and Computer Engineering

Cairo University, Egypt (Expected July 2027)

Cumulative GPA: **3.12**

Significant Coursework: Logic Design, Microprocessor Systems, Data Structures and Algorithms (C++), Advanced Programming Techniques (OOP), Introduction to Databases, Electronics (Analog & Digital), Circuits, Signal Analysis, Modern Physics, Discrete Mathematics.

High School Diploma (June 2022)

Graduated from Orouba IGCSE School, Dokki, Giza – **Score: 98.5%**

Skills

Technical Skills

- **Programming:** C, C++, Java, JavaScript, C#, Python.
- **Web Development:** HTML, CSS, JavaScript, React, Node.js, WordPress.
- **Databases:** SQL (PostgreSQL preferred).
- **Embedded Systems:** Assembly (ARM & 8086), Verilog.
- **Version Control:** Git, GitHub.
- **Other Tools:** Microsoft Office (Excel, PowerPoint, Word), Adobe Premiere Pro.
- **Software Development:** Object-Oriented Programming, Clean Architecture, RESTful APIs, Docker.
- **Additional Knowledge:** AWS (Plus), Testing.
- **Mathematics & Problem-Solving:** Strong analytical and mathematical skills, including calculus, linear algebra, and discrete math.
- **Coding Expertise:** Highly proficient in algorithm design, data structures, competitive programming, and optimizing code for efficiency.

Soft Skills

- Problem-solving & Critical Thinking
- **Team Leadership:** Led the Egyptian powerlifting team and coached national athletes.
- **Time Management:** Balanced university studies, freelance work, and coaching responsibilities under tight deadlines.
- Communication & Presentation
- Technical Writing
- Perseverance, Discipline, and Dedication

Languages

- **English:** Native proficiency
- **Arabic:** Native

