

# ALAA ATEF MOHAMED

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## Education

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- Ain Shams University , **Faculty of Engineering B.Sc. in Computer and Systems Engineering** . (2021-2026) 2021 – 2026
- **GPA:** 3.34

## TECHINICAL Skill Highlights

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- Programming Languages:  
JavaScript, C++, C#, Java, Python, MATLAB, Verilog, SQL
- Web Development:  
HTML, CSS, Bootstrap, Tailwind CSS, Angular, Git, GitHub
- Embedded Systems & Low-Level Programming:  
ARM Assembly, MIPS Assembly, Verilog, Embedded Systems
- Programming Concepts:  
Object-Oriented Programming (OOP), Data Structures, Algorithms
- Software & Tools:  
Visual Studio Code (VS Code), AutoCAD, MATLAB, GNU Octave, Microsoft Office Suite (Word, PowerPoint)

## Projects

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- **GameZone** – A browser-based games collection (Snake, Tic Tac Toe, etc.) using **HTML, CSS, JavaScript, and Bootstrap**  
🔗 [Live Demo](#)
- **Cartnset** – Built a **FastAPI** backend with **PostgreSQL, SQLAlchemy, and JWT** authentication
- **Restoran** - BBQ Restaurant Web App  
🔗 [Live Demo](#)
- **GPA Calculator** – A responsive GPA calculation app using **HTML, CSS & JavaScript** with dynamic course inputs.  
🔗 [Live Demo](#)
- **GPS Tracking System** – Developed using **C** and **Embedded C**, with differential equation solving in **MATLAB**.
- **XML Editor & Visualizer** – Built with **Python**, supporting structured XML input and tree visualization.
- **Restaurant Management System** – Desktop app in **Java (OOP)** for managing

- menus, orders, tables, and payments.
- Smart Parking System
- **Function Solver** – Implemented using **MIPS Assembly (MARS)**
- **Water Dispenser System**
- **Resistance Calculator** – Calculate equivalent resistance in advanced parallel and series connections circuits. (C++)
- **Power Supply Circuit Design** - Design and Implementation of power supply circuit
- **Solar Tracker** – Built a solar panel tracking system **without using a microcontroller**.
- **Audio Signal Filtering** – Applied **Low-Pass & High-Pass Filters** in **MATLAB** to analyze frequency components.

## Personal Skills

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- o Presentation Skills
- o Strong decision maker
- o Complex problem solver
- o Leadership
- o Innovative
- o Creative design
- o Service-focused

## Internship Experience

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- **Frontend React Intern** — *Elevo*
- **Full Stack Node.js Intern** — *STEM Entrepreneurship Center*

## links:

- o Github: [AlaaAtef2003](#)
- o LinkedIn :[Alaa atef](#)