

# MOSTAFA EID

CS Student Junior

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## ABOUT ME

Motivated Computer Science undergraduate focused on web development and building modern, user-friendly websites. Experienced with HTML, CSS, JavaScript, and modern frameworks, eager to work on real-world projects and grow as a web developer. Comfortable working with responsive design, performance optimization, and clean, maintainable code.

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## EDUCATION

Ain Shams University | 2023-2027

### Degree: B.Sc. in Computer and Information Science

Pursuing a B.Sc. in Computer and Information Science, with a strong foundation in programming, problem-solving, and web development concepts. Actively applying academic knowledge through hands-on projects and continuous learning.

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## PROJECTS

### SONiC-GUI – AI-Assisted Network Management System

Engineered a full-stack network administration platform for SONiC OS using React, FastAPI, Redis, and WebSockets, enabling real-time device monitoring and full VLAN/port CRUD operations. Designed secure backend services with SSH communication and JWT authentication. Integrated a Gemini API chatbot with LangChain experimentation to translate natural language commands into safe network actions. Implemented containerized deployment and automated CI/CD pipelines with Docker and GitHub Actions.

### FOS Educational Operating System – Kernel Development

Contributed to the development of a modular educational OS built on the FOS framework in C, implementing dynamic kernel memory allocation and advanced page fault handling mechanisms within the trap and virtual memory subsystems. Worked on paging, working set management, synchronization primitives, and user-kernel isolation. Participated in full system integration from bootloader initialization to user-space execution, testing under Bochs emulator with GCC toolchains.

### Job Application Tracking System (In Progress)

Developing a multi-platform job tracking system consisting of a web app, mobile app, and browser extension, powered by a unified FastAPI backend and Firebase (Auth + Firestore). Designed a centralized dashboard for managing applications, status updates, filtering, and analytics visualization. Implemented secure Firebase authentication integration and cross-platform data synchronization. Built import/export functionality (CSV/JSON) and currently integrating Gmail-based automation for intelligent status detection.

Full project details available at: <https://lleoparden.github.io/lleoparden/>

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## WORK EXPERIENCE

Orange business | 2025 (July to October)

### Network Software Factory intern

Contributing as part of the NSF team to build and enhance network-oriented software solutions. Engaged in real-world development workflows, collaborative problem-solving, and delivering features aligned with enterprise needs.

EFG Hermes | 2024 (August)

### IT Job Shadowing

Observed fintech and investment banking operations, participated in Q&A sessions with professionals to understand the financial technology landscape.

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## SKILLS

- **Languages:** JavaScript, Python, C, SQL
- **Frontend:** React, HTML5, CSS3, WebSockets
- **Backend:** FastAPI, REST APIs, JWT
- **Databases:** Firebase, Redis, TinyDB
- **Tools:** Docker, Git, GitHub Actions