Siham Said

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PROFILE

I am a Computer Science student at Ain Shams University (4th year) with practical experience in full-stack web development. My focus is on backend development using Node.js and frontend development with Angular, supported by a solid background in algorithms, data structures, and problem solving. I am also exploring the field of cybersecurity, particularly web penetration testing and red teaming.
Currently, I am learning to develop AI-powered agents and chatbots for websites to enhance user experience and automation. My goal is to build a professional career where I can contribute to real projects, enhance my technical expertise, and integrate both security and AI solutions into modern web applications.

EDUCATION

Faculty of Information and Computer Science   09/2022 – 07/2026
Ain Shams University
Studied core Computer Science courses such as algorithms, data structures, operating systems, networks, databases, and software engineering. Built a solid foundation in programming, problem-solving.

PROJECTS

Online Store 🔗   08/2025 – 08/2025
A responsive e-commerce web app built with Angular that allows users to browse products by category, search and view product details, add items to a shopping cart with quantity control and price calculations. Includes admin functionality with CRUD operations (add/edit/delete) for products, all connected to a mock REST API using json-server.

Image Segmentation 🔗   04/2025 – 05/2025
This project implements a graph-based image segmentation algorithm using Kruskal's algorithm. The image is modeled as a 2D graph where each pixel is a node connected to its neighbors, with edge weights based on color or intensity differences. The algorithm merges similar regions into components, producing a segmented image with distinct regions.

FOS Operating System 🔗   11/2025 – 01/2025
FOS provides students with a hands-on experience in building core components of an operating system. It enables a deeper understanding of critical concepts such as memory management, scheduling, and synchronization by implementing them from scratch. The project is structured into three milestones:

Blog Peoject 🔗   04/2025 – 05/2025
A blog application built with PHP (Laravel) and Blade templates, featuring CRUD operations for posts, user authentication, and category/tag management. The project uses a database backend, structured routes, and a responsive front-end with Bootstrap, allowing users to create, edit, delete, and view posts with role-based access control.

Data Security 🔗   03/2025 – 05/2025
This repository contains implementations of several classical cryptographic algorithms in C#, including Caesar, Monoalphabetic, Playfair, Hill (2×2 and 3×3 keys), Repeating-Key Vigenère, Autokey Vigenère, Columnar Transposition, Rail-Fence, etc. It supports encryption, decryption, and analysis functionalities.

SKILLS

nodeJS	Angular
RESTful API	PHP (Laravel)
linux	MongoDB
MySQL	C++
C#	Java
JavaScript	TypeScript
Bootstrap	HTML
CSS	python

EXPERIENCE

Elevvo Pathways Intership 🔗   09/2025 – 10/2025
Participated in a comprehensive web development internship, focusing on HTML5,
CSS3, and modern JavaScript (ES6+). Developed responsive design skills using CSS
Grid, Flexbox, Bootstrap, and Tailwind, and gained experience working with APIs.