Myriam Hamam Ebrahim Abdelmalek

Software Engineering Student

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Profile

Passionate Computer Science student majoring in Software Engineering with a strong interest in web development, networking, and problem-solving. Skilled at building practical solutions, designing scalable systems, and configuring complex networks. My career goal is to become a skilled software engineer contributing to impactful real-world projects.

Experience & Projects

Java Recruitment System

Designed and implemented a comprehensive recruitment management system featuring secure user login, advanced candidate filtering and sorting capabilities, and robust file I/O operations for data persistence.

Advanced Network Design

Built a multi-layered enterprise network from the ground up using Cisco Packet Tracer. The design incorporated VLANs for segmentation, OSPF/EIGRP for dynamic routing, VPN for secure remote access, NAT for IP conservation, and EtherChannel for link aggregation.

Responsive Web Projects

Created a series of fully responsive websites and single-page applications using HTML, CSS, and JavaScript for the frontend, with Node.js, Express.js, and MongoDB powering the backend.

PintOS Alarm Clock

Enhanced the scheduling algorithm of a Linux-based operating system (PintOS) to implement a precise alarm clock feature. This involved kernel-level programming in C to manage thread sleep and wake-up cycles efficiently.

Movie Rental System (C++)

Developed a console-based movie rental management system, applying core data structures and algorithms for efficient inventory management, customer tracking, and rental transactions.

Services Offered

Web Development

Backend Development

UI/UX Implementation

Network Design

Software Development

Tutoring

Mathematics & Computations

Digital Design

Education

Bachelor of Computer Science

Misr International University (MIU)

Major: Software Engineering
Minor: Software Development

Expected Graduation: 2027

Skills & Expertise

Programming

Java   Python   C++   C   JavaScript

Web Development

HTML   CSS   Node.js   Express.js   MongoDB   REST APIs

Software Engineering

OOP   DS & Algorithms   Design Patterns

Networking

VLANs   OSPF/EIGRP   VPN   Cisco Packet Tracer