

Mohammad HAJJAHMAD

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Professional Summary

Computer and Communication Engineering student at Antonine University, currently entering a Master's program. Solid foundation in software development, systems design, and computer networks. Highly motivated to contribute to real-world engineering projects while continuously developing technical and professional skills.

Education

Bachelor of Engineering (BE), Major in Computer and Communications Engineering (Masters level) 2022 – Present
Antonine University, Lebanon

Projects

Linux & Windows Server Lab (VMware)

- Built and managed a virtual lab using **VMware Workstation**.
- Installed and configured **Windows Server 2022** and multiple **Linux** virtual machines.
- Practiced server deployment, networking configuration, user management, storage management, and system administration.
- Performed snapshot creation, cloning, backup, and recovery testing.

Smart Parking System (Raspberry Pi, Python, Computer Vision)

- Developed an intelligent parking management system using **Raspberry Pi, Python, SQLite**, and computer vision.
- Built a license plate recognition workflow integrated with an automated gate control system.
- Designed communication between Raspberry Pi and a laptop-based AI detection service.
- Implemented database validation, sensor monitoring, and automated parking management.

Car Wash Shop Web System (Full-Stack Web Application)

- Developed a full-stack web application for a car wash business using Node.js, Express.js, MySQL, and EJS, covering backend logic and frontend user interfaces.
- Implemented REST APIs, authentication with sessions, role-based access (admin/client), and database integration for services, bookings, orders, and feedback.

Game Shop Management System (JavaFx Project)

- Developed a Game Shop management application using object-oriented programming (OOP) principles, including encapsulation, inheritance, polymorphism, and abstraction.
- Implemented features for managing games, customers, purchases, and inventory, with a modular class-based design focused on maintainability and code reusability.

Interconnection & Distributed Systems Project

- Designed and implemented an interconnected system integrating Elasticsearch, a mail server, and a Galera Cluster for high availability and data consistency.
- Configured database replication and clustering using Galera to ensure fault tolerance, load balancing, and reliable data synchronization across nodes.
- Integrated Elasticsearch for fast search and indexing and a mail server for automated notifications and system communication.

Technical Skills

Programming Languages: C++ | Java | Python | PHP | JavaScript | SQL

Web Technologies: HTML | CSS | JavaScript | Spring Boot

Operating Systems: Linux | File Systems | Windows Server 2022

Networking: TCP/IP | OSI Model | Routing & Switching | Subnetting | VLANs | Cisco Packet Tracer

Certifications

CCNA 1, 2, and 3: Routing and Switching by Cisco	June 2025
Learning Virtualization by Martin Guidry and LinkedIn	Aug 2025
Cloud Computing Core Concepts by David Linthicum and LinkedIn	Aug 2025
Server Administration Essential Training by Ed Liberman and LinkedIn	Jul 2025

Languages

- Arabic: Native, English: Fluent