

Mohammad Chadi Charaf

Computer and Communication Engineer

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Education

Bachelor of Engineering in Computer and Communication Engineering.

Rafik Hariri University, AL-Mechref, Damour-Lebanon.

Overall GPA: 91.42 | Major GPA: 92.72 | 2022 - 2026

Work Experience

Internship, Vision and Robotics Lab – American University of Beirut (AUB)

May 2025 – August 2025

- Worked on the **Dynamic Object Handling in DSP-SLAM** project integrating VDO-SLAM features.
- Implemented object-level dynamic tracking logic, optimized algorithms, and performed system integration.
- Collaborated with research mentors on real-world problems involving visual SLAM in dynamic environments.

Internship, Integrated Digital Systems (IDS)

1, June 2025 – 31, July 2025

- Completed a Full Stack Web Development Internship (240 hours) in the Development & Research Department.
- Developed and tested web applications using **HTML, CSS, JavaScript, PHP, C#, ASP.NET Core, SQL, React.js, Vue.js**.
- Worked with **Git, Visual Studio, and Postman**, applying **MVC architecture**, RESTful APIs, and security best practices.

Contestant, Cyber Security Capture the Flag (CTF) Competition – Semicolon Academy 2025

- Participated in a national-level cybersecurity challenge focused on Infrastructure Security, Reverse Engineering, Cryptography, Application Security.
 - Qualified with my team to the **finals round**, ranking among the **top contenders** in the competition.
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Projects

Restaurant POS System (Database Project)

Team Size: 4 | Technologies: SQL, C#, VisualStudio, Draw.io

Facial Expression Detection (AI Project)

Team Size: 3 | Technologies: Python, OpenCV, DeepFace

Image Compression using 2D DCT (MATLAB Project)

Technology: MATLAB

E-commerce Website (Web development project)

Team Size: 3 | Technologies: HTML, CSS, JavaScript, jQuery (JSON, Local Storage), Git/GitHub, VsCode

Smart Home Automation System (Embedded Systems Lab)

Technology: Tinkercad, MIT App Inventor

Network Infrastructure Project (Networking Project)

Team Size: 4 | Tools: Cisco Packet Tracer

Web Scrapping with Machine Learning (Web Scrapping Project)

Team Size: 3 | Tools: Selenium, BeautifulSoup, Python

Aspect Based Sentiment Analysis (Natural Language Processing)

Team Size: 3 | Tools: Python

Final Year Project: VR-Based Exposure Therapy for Acrophobia

Multi-level VR system with adaptive progression, NPC guidance, real-time biofeedback (PPG, GSR), OLED/LED monitoring, and 3D-printed prototype

Skills

Technical Skills

- **Programming Languages and Frameworks:** C++, Python, C#, SQL, HTML, CSS, JS, jQuery, NodeJS, Java, SpringBoot Fundamentals.
- **Frontend** web development and a background in **Public APIs**.
- Experience in Fundamentals of **Machine Learning**
- **Web Scrapping** using Selenium, BeautifulSoup, Automation workflows using Github
- Research and implementation of **computer vision and SLAM algorithms**
- Experience with C++ robotics frameworks (**SLAM systems**)
- **Postman** software.
- **Git and GitHub skills** for version control and team collaborations.
- **Arduino/ESP32** circuit design and programming.
- Fundamentals of **3D designing using Fusion 360 software**
- Build **network topologies** and **configure routers, switches, and end devices** using **Cisco Packet Tracer & PuTTY**.
- **Microsoft Word and PowerPoint** for documentation and presentations skills.

Soft Skills

- **Strong problem-solving abilities** with an **analytical** and **proactive** approach.
- Effective **teamwork, communication, and collaboration skills**.
- Excellent **time management** and **organizational capabilities**.
- **Self-motivated** with passion for continuous learning and innovation
- **Responsible and dependable** in completing assigned tasks
- Ability to **handle big projects and managing them effectively and efficiently**

Languages

- **Arabic** (Native tongue) | **English** (B2, Fluent)

Certificates and Awards

- CCNA: Introduction to Networks – Cisco Networking Academy (2025)
- CCNA: Switching, Routing, and Wireless Essentials–Cisco Networking Academy (2025)
- CCNA: Enterprise Networking, Security, and Automation (2025)
- Machine Learning Onramp – MathWorks (2025)
- Deep Learning Onramp – MathWorks (2025)
- Reinforcement Learning Onramp – MathWorks (2025)
- Honor List certificates
- CTF certificate

References | (Will be provided upon request)