Mohamad Akoum

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Computer Science student with strong backend and software development skills. Passionate about developing, testing, securing software and eager to contribute to innovative software projects. I'm currently pursuing an internship in a development team where I can gain strong fundamental experience in frameworks used to develop secure and scalable software.

EDUCATION

Beirut Arab University   Beirut, Lebanon

Bachelor of Science in Computer Science | GPA: 3.7/4.00 (Expected May 2026)

Relevant Coursework

- Data Structures & Algorithms
- Database Systems
- Web Development
- Software Engineering
- Computer Networks
- Applied Machine Learning

EXPERIENCE

Backend Developer | InnoALchemy   May 2024 – July 2024
Saida Lebanon

- Developed backend solutions in PHP, improving website responsiveness by 30%.
- Optimized SQL databases, reducing query execution times by nearly 20%.
- Designed an e-commerce template for seamless payment gateway integration.

https://github.com/InnoAlchemy/E-Come-APIs

Personal Projects

Detecting botnet activities in networks   (April 2025)

Developed a botnet detection model using USNW-15 dataset for training. **Logistic regression** was used for botnet detection, and an **artificial neural network** was developed for attack classification of botnets.

Warehouse Management System (December 2024)

Designed a **relational database prototype** for a national warehouse. **SQL** was used for querying and retrieving, deleting, and manipulating data.

Spotify Soulmates (April 2024)

Developed a matching website according to songs and artists using **HTML**, **CSS** and **JavaScript** for the user interface, **PHP** and **SQL** for the backend.

https://github.com/Spotify-Soulmate-Team/Spotify-Soulmate

EXTRACURRICULARS

- Semicolon's Bug Bounty Workshop (April 2025)
  Gained hands-on experience using **Burp Suite** for identifying security vulnerabilities, which added to the fundamentals of hacking and bug bounty hunting

- Semicolon Local CTF Participant (June 2025)
  Participated in a CTF hosted by Semicolon. The CTF contained methodologies such as OSINT, cryptography, web and application security and reverse engineering.

- Active member of BAU CP, participating in coding competitions and technical workshops.
  June 2024 – Present

SKILLS

- Programming Languages: Java, C++, C, Python, PHP
- Machine Learning Libraries: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, xgb and tensorflow
- Web Development: HTML, CSS, JavaScript, MySQL
- Tools & Frameworks: Git, GitHub
- Penetration packages and tools: linux, Burp Suite, Metasploit, netcat, nmap, msfvenom, hashcat, sherlock, gobuster, holehe,

Soft Skills

Time Management, Teamwork, Adaptability, Communication & Leadership skills

LANGUAGES

- Arabic: Native
- English: Fluent (Full Professional Proficiency)
- French: Intermediate (DELF B1 Equivalent)