

# KARIM ABBOUD

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in LinkedIn

GitHub

## EDUCATION

### American University of Beirut

Aug 2022 – May 2026 (Expected)

Bachelor of Computer Science Engineering | Concentration: Cybersecurity & Networking

Beirut, Lebanon

- **Relevant Coursework:** Data Structures & Algorithms, Object-oriented & Effective Java Programming, Design & Analysis of Algorithms, Computing Networks & Services, Ethical Hacking I & II, Internet Security Lab, Cryptography & Network Security, Operating Systems.

## CERTIFICATES

- Introduction to Cybersecurity (Cisco) Cisco
- React - The Complete Guide 2024 (incl. Next.js, Redux) (Udemy) Udemy

## EXPERIENCE

### Tutoring EECE 230, 330 (Python, Data Structures)

Aug 2023 – Present

American University of Beirut

Beirut, Lebanon

- Provided support for students in courses like EECE 230 (Python) and EECE 330 (Data Structures), enhancing understanding and fostering a conducive learning environment.

### Capture The Flag (CTF) Projects

Jan 2024 – Present

Cybersecurity Competitions

Online

- Participated in CTFs, exploiting vulnerabilities in VMs, binaries, and web apps.
- Focused on web exploitation, cryptography (RSA, XOR), reverse engineering, and forensics.
- Ranked top 10% in **picoCTF 2024** by CMU (1389/14000), solving cryptography and binary challenges.

## PROJECTS

### ERP System (Full-Stack Django Application) | Django, Python, JavaScript, HTML/CSS

Apr 2024 – Present

- Developed and deployed a comprehensive ERP system using Django, handling both front-end and back-end responsibilities.
- Implemented secure business processes, including user authentication and database integration, reducing unauthorized access by 50%.
- Designed and deployed automatic invoice generation, ensuring smooth and efficient workflows. reducing manual processing time by 40%.
- Applied complex business logic to manage key organizational functions like inventory management, order processing, and reporting.
- Ensured data integrity and delivered a seamless user experience across various system modules. With user satisfaction rating of 90%.

### Frontend Developer for GPA Calculator | React, API Integration, JavaScript

Mar 2024 – Jun 2024

- Developed the frontend of a responsive GPA calculator using React. See code on [This GitHub Repository](#).
- Focused on dynamic inputs, real-time calculations, and validation to enhance user experience and reduce user input errors by 35%.
- Collaborated with backend developers to integrate the frontend with an API for retrieving accurate course data and grades.

### Python Proxy Server with Advanced Cache Management | Python, Sockets, Flask, Networking

Oct 2023 – Nov 2023

- Led a team of 3 to develop ProxyGuard, a robust proxy server featuring advanced cache management achieving a 40% increase in cache efficiency and reducing latency by 30%.
- Implemented authentication and optimized performance for high traffic loads. See code on [This GitHub Repository](#).
- Designed the system for efficiency, scalability, and reliability, using multi-threading to increase concurrent request handling by 60%.
- Enhanced control over network access by implementing a website/IP-blocking feature, allowing administrators to manage client requests.

## EXTRACURRICULAR ACTIVITIES

### Volunteering at Non-Profit Organization

300+ hours

Assisted medical professionals by providing patient care support and managing medication distribution in a healthcare setting.

## SKILLS & INTERESTS

**Soft Skills:** Communication, Teamwork, Analytical Thinking, Problem Solving, Creativity, Adaptability, Leadership

**Programming Languages/Scripting Languages:** Bash, Python, C/C++, Java, C#, Type/-JavaScript, Batch, PowerShell

**Tools/Technologies:** Git, Docker, VS Code, Wireshark, **Security Frameworks:** OWASP, Metasploit, Nmap, Burp Suite

**Languages:** English (Fluent), Arabic (Native)

**Interests:** Software Engineering, Cybersecurity, Ethical Hacking, Ping-Pong, Chess, Community Service