Charbel Ghanime

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Education

American University of Beirut 2021 – present
Bachelor of Engineering, Computer and Communications Engineering *Beirut, Lebanon*

College des Freres Maristes Champville 2008 – 2021
Lebanese Baccalaureate: Scientific with emphasis in Mathematics - High Distinction *Dik-El Mehdi,Lebanon*

Experience

American University of Beirut September 2024 – Present
Teaching Assistant, Ethical Hacking Course (Part-Time) *Beirut, Lebanon*

- Assisted instructors in lab sessions, providing technical support and guidance to students.
- Helped the instructor answer student questions and clarify complex ethical hacking concepts.
- Corrected lab assignments and final exams, ensuring fair evaluation of student performance.

Alfa Telecommunications July 2024 – August 2024
Security Testing and Engineering Intern *Dekwaneh, Lebanon*

- Performed vulnerability assessments with a focus on OWASP Top 10 vulnerabilities, particularly in Kubernetes and web applications.
- Conducted penetration testing on web applications to identify and addressed security weaknesses.
- Collaborated with teams to prioritize and implement remediation measures based on findings.

Potech Consulting June 2024 – July 2024
Cyber Threat Intelligence Intern *Mansourieh, Lebanon*

- Developed web scrapers to collect data for threat analysis and intelligence gathering.
- Conducted passive reconnaissance to gather information on potential security threats.
- Performed privilege escalation exercises on Linux systems to identify and mitigate security risks.
- Engaged in various web attacks to evaluate web applications.

Projects

Wazuh for Security Monitoring and Incident Response December 2024 – December 2024
American University of Beirut *Beirut, Lebanon*

- Deployed and configured the Wazuh platform for centralized monitoring of Windows and Linux environments.
- Developed custom rules to detect and alert on unauthorized user activities, privilege escalations, and suspicious command executions.
- Integrated File Integrity Monitoring (FIM) and VirusTotal API to detect unauthorized file changes and malware.
- Configured PowerShell logging and created tailored rules for identifying malicious activities.

Active Directory and Linux Penetration Testing CTF April 2024 – May 2024
American University of Beirut *Beirut, Lebanon*

- Conducted penetration testing on Active Directory and Linux environments, aiming to gain domain administrator access and compromise domain accounts.
- Compromised a domain-joined machine and escalated privileges, using tools like **Mimikatz**, **Rubeus**, and **Impacket** to attack the domain controller.
- Performed Linux enumeration with **Nmap** and **WPScan**, gaining root access through service exploitation and maintaining persistence via cronjob exploits.
- Documented all methodologies, findings, and provided remediation strategies in a comprehensive report.

Ethical Hacking report for a CTF project November 2023 – December 2023

American University of Beirut *Beirut, Lebanon*

- Performed comprehensive penetration testing and vulnerability analysis of a target system using tools like Nmap, Nikto, Nessus, gobuster, dirb.
- Gained a reverse shell using a vulnerable plugin on the machine.
- Escalated privileges through exploitation of a Linux kernel vulnerability identified via search on Exploit-DB.
- Documented methodology and all findings in a formal pentesting report.
- Made recommendations for remediation of security weaknesses based on industry best practices.

Voltage Glitch Attack November 2023 – December 2023

American University of Beirut *Beirut, Lebanon*

- Studied voltage glitching methods to induce faults and alter microcontroller behavior.
- Tested two glitching attack techniques on Arduino Uno using a voltage glitching circuit: dropping voltage to 0V and modifying glitch parameters.
- Achieved successful alteration of instructions and memory contents, leading to malformed execution.
- Documented attack procedures, results, and analysis in a paper formatted for an IEEE conference.

Certificates and Honor Awards

Certificate of Recognition from the Lebanese Army August 2024

Awarded by the Lebanese Army for identifying and reporting critical vulnerabilities in their website, contributing to the enhancement of their cybersecurity measures.

Dean's Honors List Fall 2023-2024, Dean's Honors List Spring 2023-2024

Specialized Skills

Programming Languages and Simulation Softwares: Proficient in Wireshark, Python, C++, Java, Pspice, HTML, Flask, VHDL, LaTeX, ANSYS, Vivado

Operating Systems: Experienced in Linux, Windows

Languages: Fluent in English, French, and Arabic.

Universities Clubs and Societies

IEEE Cyber Security Cabinet (January 2025 - Present)