

Lara Kallas

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in <https://www.linkedin.com/in/lara-kallas-a470582a3/> | 🐙 <https://github.com/larakallas>

Education

American University of Beirut, Bachelor of Engineering in Computer and Communications Engineering Sept 2020 – Jun 2025

- **Coursework:** Intro to Programming, Data Structures and Algorithms, DFIR, Networking, Ethical Hacking 1-2, Business Engineering, SQL and Databases

Collège Notre Dame De Nazareth Sept 2007 – Jun 2020

- **Lebanese and French Baccalaureate:** Economics track, Graduated with Distinction

Experience

SOC Analyst Intern, Potech – Mansourieh, Lebanon June 2024 – Aug 2024

- Collaborated with the Blue Team to defend client systems against cyber threats, increasing incident detection accuracy by 30%
- Monitored and analyzed real-time security events using SIEM tools like Oktivore, contributing to 25% of total team shift coverage
- Managed user accounts, permissions, and shared file systems via Active Directory, improving access control efficiency by 40%
- Generated detailed security reports and actively participated in incident response, ensuring 99.9% system uptime and client data integrity
- Researched and stayed up to date on emerging cybersecurity threats, enhancing proactive defense strategies

Projects

Final Year Project - Video Steganography github.com/Mlaynedere/Video-Steganography

- Designed and implemented a coverless video steganography system enabling secure message transmission between users
- Improved data concealment rate by 35% compared to traditional LSB methods
- Tools Used: Python, MongoDB, Sqlite3, Steganography Libraries

Wazuh for Logs Management drive.google.com/file/d/1XSWeYf/

- Configured Wazuh server and agents to receive logs and alerts from Windows and Linux machines
- Automated log monitoring, increasing detection speed of malicious behavior by 40%
- Tools Used: Wazuh, PowerShell, Ubuntu, Windows, VirusTotal

Ethical Hacking CTF with Report <https://drive.google.com/file/d/1yE7hL>

- PSuccessfully exploited a Boot-to-Root vulnerable machine, documenting vulnerabilities and remediations
- Enhanced privilege escalation techniques and reported 5 critical security flaws
- Tools Used: Kali Linux, Nmap, Nessus, CVE-DB, Exploit-DB, Metasploit, Python, Netcat, Dirb, Dirbuster, LinPEAS

Chat Room Using Unix/Linux github.com/larakallas/EECE-350-YallaChat

- Built a multi-threaded client-server chat application supporting real-time messaging between multiple users
- Optimized message handling to support 30+ concurrent users with <100ms latency
- Tools Used: Python, SQL, PyQt, Socket Programming, Multi-threading

Summary Skills

Languages: Fluent in French, Arabic, and English

Technologies and Programming Languages: C++ , Python, Java, SQL, HTML, Django, Batch, Bash, Linux, PostgreSQL, MongoDB, sqlite3, Microsoft Office

Volunteering

Events Manager

Collège Notre Dame De Nazareth- Equipe Missionaire

2017-Present

- Manage events and camps for students at Collège Notre Dame de Nazareth
- Skills: Leadership, Events Management, Time Management, Data Management, Excel