LIOR SHEM TOV

CAPTAIN OF A HIGH SCHOOL ROBOTICS TEAM AND MAGSHIMIM CYBER PROGRAM STUDENT.

Contact

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GitHub
github.com/Lior1254

Language

Hebrew

English

Skills

Programming Languages:

Assembly

C, C++

C#

Python

Java

Data Bases:

SQLite

Firebase

If necessary, I am prepared to showcase the projects I have completed

PROFILE

I'm a high school student focusing on computer science and software engineering.
Additionally, an active participant in the "Magshimim" cyber program.
Captain of a FIRST robotics team for two years.
I manage and organize the work between different groups in the team.
Motivated, responsible, and eager to learn and contribute.

EDUCATION

"Magshimim" cyber program
2024 -10 – Present
- Computer Architecture course
- Computer structure course
- C Programming course
- C++ Programming course
- Computer Networks course
- Python Programming course

High School
2024 -9 – Present
- 5 units in the computer science major
- Currently studying toward 5 units in Mathematics, Physics, Robotics
- 5 units in the software engineering major (Android Studio)

EDUCATION "MAGSHIMIM" CYBER PROGRAM

Python Networking Expertise
2024
- Studied a Python programming course alongside computer networking.
- Learned the 5-layer networking model and core libraries: Requests, Sockets, and Scapy.
- Used tools such as Wireshark and Fiddler for analysis and debugging.
- Completed hands-on projects integrating Python and network protocols.
- Developed a proxy server and led a security project identifying vulnerabilities in a social network, with clear demonstrations of potential exploits.

Computer Architecture, Assembly & Reverse Engineering
2024 - 2025
- Studied Assembly language and reverse engineering techniques.
- Learned how the Linux operating system works, including its kernel structure.
- Created a Hangman game in Assembly with multiple words, topics, and ASCII animations.
- Worked on a reverse engineering project focused on analyzing and breaking protected Assembly code to identify weaknesses.
- Started practicing challenges on pwnable.kr to improve reverse engineering and exploit development skills.

C and C++ Programming
2024 - 2025
- Completed two consecutive one-year courses in C and C++.
- Built various C projects covering core concepts like memory usage, file handling, pointers, and basic data structures.
- Created a multiplayer trivia game with rooms – server in C++ using WinSock, and client in C# with WPF.
- Built an SQL-based user management system as part of a database project