Resume

Itay Barok

Identity number: 325551448   **Status:** Single

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Introduction

- 18 years old. I will join the army in time zones of April 2023 or November 2022
  TAU CS 3rd year student and software developer in XM Cyber
  enthusiastic about hacking and low level R&D
- Most of my projects: Github (https://github.com/Itay1007)
  More on me and my colleges: LinkedIn (https://www.linkedin.com/in/itay-barok-a8ab09202/)
  Article on me in Petah Tikva mynet digital newspaper:
  mynet (https://projects.mynet.co.il/campus/article/BJBSoCfU00)

Education

2015-2021, "Golda Meir" High School, Petah Tikva
- Competed High School with Average Bagrut exams grade of **96**
- Completion of 5 units of study in each subject: Computer Science, Mathematics, English and Physics
  in the Bagrut grades 100, 98, 96, 95 respectively and 10 units of study in Mechatronic in the grade 100

2019-2021, The Open University
- Studies for B.Sc. in computer science as part of the **youth program** "Academy in High School"
- Completed my junior year with an average grade of **97**
- Certificate of president excellence of the academic year 2020-2021

2021-, Tel Aviv University
- Studies for B.Sc. in computer science – Sophomore year
- Completed my second year with an average grade of **89**
- Transferring from The Open University to Tel Aviv University

2021-, ITSafe
- self learning online resource for learning the career path of "Pentest Professional Package", Reverse
  Engineering and Malware Analysis
- Completed ITSafe 2022 annual CTF

2021-, XM Cyber
- Israeli defense by offence cyber security company. I work 3 days a week in the R&D as a
  junior **software developer** in the development of attacking methods for on-premises

Knowledge and Technologies

- **Programming Languages**: C/C++, python, intel and mips assembly, java, JavaScript and
  some Arduino, html and php
- python PCEP, linux LPI certifications.
- Participates online codeforces competitive programming competitions and TAU competition on a place in
  international ICPC, online ctfs like picoCTF, ITSafe ctf and some HackTheBox, TryHackMe, **pwnable.kr**.
- Computers and cyber activities like Facebook Hackathon, **Bluehat** Israel and **CodeGuru Extreme**
- **Knowledge in** low level research and development, machines hacking, linux, networking, computer
  architecture and processors (especially mips), operating systems, and some reverse engineering,
  pwn and malware analysis

Projects

- **Compiler** creation project with 2 collaborators in java and mips to a high level imaginary language
- **Assembly** creation project with a collaborator in C of a mips-like assembly
- Minimalistic Single Cycle 32 bits **mips processor Extender**. A hardware project using logism application.
- In progress, **FireWall** creation from scratch 3rd year project in my degree in Computer Science as I was chosen to take part in a collaboration between **Checkpoint and Tel Aviv University**. Low level research and development project in low level C, kernel-user modes, device drivers, NetFilter API, VMs and networking
- **Code Guru Extreme** Competition in collaboration with 4 collaborators, big assembly projects of both development and research. Reached the finals and finished in the 9th place
- In progress, self project for learning purposes of **creating an operating system** from scratch in intel assembly, C using linux, qemu emulator and lots of google
- In progress, self project of **building a chip 8 emulator** from scratch in C++
- Building a Simple **Trojan horse** bat file with python inside an image using server-client on tcp, iexpress, registry editor and VMs
- Simple **GUI calculator** in python to learn about the module tkinter
- Simple **command prompt** program in C to learn system calls as fork, execvp, wait, getpid, pipe, etc
- Implementing with collaborator a **deep learning algorithm "spkmeans"** in C, Python, Python C API
- Creation a goalkeeper and a striker **human-like robots** that play football.
  A project worth 5 units in high school in Mechatronic in Arduino and Hardware with 3 more collaborators.

Voluntary activity

- **2019-2020,** Tennis coaching in "Tennis Hamoshava", Petah Tikva
  Throughout 2 years, coaching tennis groups of the ages 6-9
- **2021,** Project "From home to home", Petah Tikva
  Collecting products from residents of Petah Tikva, in order to sell it and give the collected money for abused women and youth at risk

Languages

- Hebrew – Native speaker
- English – Fluent in reading, writing and speaking
- Spanish – High level in reading, beginner level in speaking and writing