

About me

Yael Bar-Akiva Kantorovich
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"A young passionate software developer and security researcher fresh out of school with 5 years of programming experience and proven teamwork abilities seeking the position of Junior *Software Engineer / Cybersecurity Researcher*."

Skills

- Operating Systems: Linux (Ubuntu, Arch Linux, NixOS, Several embedded kernels and more), Windows (Desktop, Embedded)
- Reverse Engineering: Experienced with GDB, IDA, Ghidra, and LIEF for analyzing and understanding complex binaries. Proficient in using x64dbg, dnSpy and binwalk for additional analysis.
- Programming:
 - Low-Level: C/C++ (proficient), Rust (semi-proficient), Assembly (semi-proficient: x86, x64)
 - High-Level: Python (proficient), Java (proficient), C# (proficient), Clojure (semi-proficient)
 - Scripting: Bash (proficient), Lua (proficient), Javascript (semi-proficient)

Experience

- 2020 - 2023: [FIRST Robotics Competition Team 5951](#), **Software Developer**
 - Robotics Programming in Java with a specialized team of 5 people.
 - Maintenance and Development of multiple 3,500+ SLOC projects (3 completely different robots sharing several frameworks).
 - Management of project milestones and timeframes in coordination with non software teams, integrating software with the engineering, design and electronics departments.
 - Development and Design of future-proof internal libraries and frameworks in Java using high-level physics and maths (Focusing on Automated Driving, Control Systems and Computer Vision).
 - Developed and implemented strategies for continuous improvement of coding practices, including code refactoring, optimization, and code reuse.
- 2021: [FIRST Tech Competition Team 13146](#), **Programming Mentor / Teacher**
 - Mentored a group of High School Juniors and taught them Object Oriented Programming and Design in Java from scratch.
 - Provided *Quality Assurance* as well as *full Devops* documentation.
 - Reached the *finals* at Israel Championship in part to the autonomous consistency and reliability.
- 2019 - present: **Various CTF and low level pwn competitions:**
 - *Binary exploitation* on pwnable.kr and Mossad's yearly CTF, reaching top ~1.5% of participants.
 - Targeting *pwn*, *misc* and *sandbox* challenges on yearly Google CTF.
 - Reversing Engineering userland and kernelspace programs both in static analysis (IDA, binwalk) and dynamic analysis (GDB).
 - Usage of several technological environments to solve creative challenges.
- 2022 - present: **Self-Driven Cybersecurity Research**
 - Frequent reversing of up-to-date malware from [MalwareBazaar](#) and [vx-underground](#).
 - A great amount of hand-written Proof of Concepts to many vulnerabilities focusing on *Linux kernel hacking* and *Windows internals*.
 - Security analysis of IOT devices found on *Shodan*, such as printers and electronic billboards.

Languages

Hebrew - Native Speaker
English - Bilingual proficiency
German - Novice

Some Facts About Me

- Incredibly curious and passionate about computers, software and security.
- Autodidact / High self-learning abilities and methodology.
- Creative problem solving skills that do not only apply to computers.
- Experienced with teamwork with a wide array of communication skills.
- Detail oriented yet able to analyze a bigger picture.
- Positive thinker :)

Education

2017 - 2022: High school education at Tichonet-Alterman with specialization in computer science and mechatronics.
2019 - 2022: Physics specialized education at Hemda.
2017 - 2023: Robotics oriented extracurricular education and work as part of several FIRST programs.