

Gershon Ballas

A full-stack developer with an affinity to security

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EXPERIENCE

IDF Intelligence, Technological Unit — *Security researcher*

OCTOBER 2013 - FEBRUARY 2017

Worked on cutting edge and classified projects as a security researcher, requiring skills that range from development of “cyber tools” to research of security mechanisms of different OS’s.

Solebit Labs, (sold to Mimecast) — *Security researcher*

FEBRUARY 2017 - MARCH 2018

The company developed a heuristic that would allow it to detect shellcodes in real time, thus enabling prevention of yet-unknown zero-day vulnerabilities. The job required researching different shellcode writing techniques and an in-depth understanding of low-level zero-day vulnerabilities.

First DAG, Cryptocurrency “bank” — *Fullstack developer*

AUGUST 2018 - MARCH 2019

Worked on developing a cryptocurrency “bank”. The position required a security-minded developer. Worked with Python 3 and NodeJS (with web3.js for crypto).

EDUCATION

IDF Intelligence course — *Cyber security*

NOVEMBER 2013 - MAY 2014

Top-level cyber security course which qualifies its graduates to serve as security researchers in the Israeli intelligence community.

Independent Coursework — *Computer science courses*

2011 - 2013

Have completed numerous online courses independently. Courses include The Elements of Computing Systems (offered by IDC), operating systems and computer networking courses offered by different universities (both following Andrew S. Tanenbaum’s Modern Operating Systems and Computer Networks textbooks), and other courses as well.

SKILLS

Languages: C, x86 Assembly, Python, Java, PHP

Architecture: Dev principles, design patterns, scalability, concurrency, time and memory efficiency, algorithm design

Development: Work with different DB’s, development envs, and version control software

Reversing: Experience in reverse-engineering using GDB, OllyDBG, IDA

Security: Windows, Linux, and Android internals, web security policies

Networks: Network analysis and familiarity with corporate network protocols and technologies (NetBIOS, NTLM, SMB, SNMP, WMI, etc.) and configuration of said networks

Misc: Experience in low-level exploit and shellcode development on different OS’s

LANGUAGES

Full proficiency in both Hebrew and English, successfully completed Japanese Language Proficiency Test level N3