

# Gershon Ballas

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A security researcher with an affinity to low-level (especially Linux) and web

## 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

Development in C, x86 Assembly, Python, Java

Full-stack web development

Working knowledge in reverse-engineering using GDB, OllyDBG, IDA

Working knowledge in low-level exploit and shellcode development

Knowledge of Linux and Android internals

Web-security assessment of web applications using tools such as Burp (both black-box and white-box)

Understanding and practical knowledge of web security mechanisms, techniques, and attacks such as same-origin policy, content security policy, JSONP, XSS, CSRFs, click-jacking, etc.

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

## LANGUAGES

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