
David Levy Nahum

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A passionate manager of SAAS core RT Application teams with 14 years experience in large scale distributed systems. Seeking a challenging position in which my experience, motivation and dedication can make a difference.

Professional Experience

Imperva

Rehovot, Israel

Feb 2016 – Present

Cloud WAF/CDN/DNS Real-time Manager

Responsible for the Imperva Cloud WAF (former Incapsula) core service components in a cyber security SaaS environment. Leading a group of 14 developers in 3 teams.

Started as a senior developer for RT service in a multi-threaded multi-core Linux-based environment. Today acting as manager of 14 engineers in 3 teams.

- Build and maintain multiple high-performance software engineering teams:
 - Cloud WAF/CDN core RT process, running on a multi-threaded multicore machine in a multi-tenant environment. written in C.
 - DNS - serves as the Cloud WAF DNS and offers managed DNS features
- Work with engineering teams to develop roadmaps, to define delivery goals, and to achieve them within agreed timelines:
 - Working in agile bi-weekly sprints, each engineer plans his own sprint according to its backlog that is built from our priorities
 - Yearly Queue planning of the RT group with all stakeholders
- Communicate effectively with stakeholders business-wide:
 - In contact with Other development groups, Product, Sales & Architects.
 - Have customer sessions on new requirements/bugs/RCA.
- Provide leadership, training, and mentoring to other software engineers:
 - Building a yearly personal development plan with engineers
 - Facilitating inner group training sessions to maintain knowledge sharing
 - Conduct onboarding session to recruited engineers
- Maintain high standards of software quality within the group by establishing and practicing good engineering practices and habits
- Work well with product managers and other teams to achieve the best outcomes given a number of constraints
- Cultivate a healthy team culture centered on company values

F5 Networks

Atidim, Israel

Sep 2014 – feb 2016

Senior C/C++ developer for a Linux based WAF

As part of the data plane multi-threaded application team, designed & wrote a cross card & cross systems communication infrastructure for the BigIp products. Refactored database connections for higher efficiency & debugging abilities. Implemented a better logging mechanism all the way from the GUI to the DP using HTML with JS, PHP, C++, Perl and C. Usually working in a C/C++ multi-threaded Linux environment.

May 2013 – Aug 2014

Simgo Mobile (startup)

Ra'anana, Israel

Senior Python/C developer for a virtual SIM platform

Wrote a production grade module in Python which allowed integration of an ARM device into 3rd party vendors, exporting a JSON API over TCP towards the vendor and a packet protocol over USB with the device. Implemented using a custom Twisted-like reactor system supporting much of the Twisted core functionality (deferred, nested deferred, callLater, async network I/O, etc.) in a fraction of the code. Heavily tested in both Windows and Linux.

Implemented system-wide features and modules in C for a device that emulates a SIM card, running on an ARM over a feature-rich OS. The system heavily emphasized object-oriented design, decoupled asynchronous interfaces between modules, unit testing, and predictability.

Sep 2011 – May 2013 **Mobile Access** (Acquired by Corning) *Airport City, Israel*
Senior C/C++ developer for a distributed cellular antenna system

Architect & lead developer of a management controller. Designed & implemented a module responsible for automatically configuring thousands of network elements from a master entity. Responsible for interfacing with outsourcing companies and enforcing quality control measures via code review. Worked on a daily basis with C/C++, SNMP, HTML, jQuery and JavaScript on a PowerPC running VxWorks 6.5.

Sep 2006 – Aug 2011 **Celtra** *Petah Tikva, Israel*
Senior C++ developer for a cellular backhaul switch

As part of the embedded multi-threaded application team, took part in designing several modules of a cellular backhaul switch. The system was written in C++ running VxWorks spanning over more than a dozen PowerPC processors. Heavily relying on the object-oriented and asynchronous design was responsible for

- Design and implementation of the Alarm Manager. Handled real-time detection, handling, and consequent action propagation of hundreds of events/second of E1, SONET/SDH, ATM, and DSP alarms. Required optimized access to the system database (exported via MIB).
- Design and implementation of the redundancy mechanism - 1:1 and 1:N
- Design and implementation of the manufacturing interface – supporting many system-wide hooks to allow for hardware manufacturing and testing
- Design and implementation of the configuration validation module
- Maintenance of the inter-processor communication layer
- Served as the lab point of contact and solved system-wide bugs

2005 – Sep 2006 **MoozaTech** *Azur, Israel*
LAMP/Security developer

Served as the sole developer in a CRM project for the Israeli Tennis Association, deployed nation-wide. Solely designed and wrote the CRM (from scratch) allowing for league organization, player career management, etc. Implemented the design on a PHP/MySQL environment running on Fedora.

In the second project, implemented an IP network security analyzer capable of brute force attacks, running scripted exploits, and eventually generated a report of network vulnerabilities. Implemented in C/C++ with PHP user interfaces.

Education

2006-2008: Seminars in MPLS, ATM, SONET/SDH, IP routing, including a 5 day VxWorks course

2002-2006: B.Sc Computer Science, Jerusalem Hadassah College

Professional Skills

Languages: C/C++, Python, Bash, PHP, SQL (proficient), Java & Perl (some experience)

OS: Linux (ubuntu), Windows (proficient), VxWorks

Networking: HTTP, TLS, DNS, IP, SNMP, ATM, SONET/SDH, TDM (working knowledge)

Project Management: Jira

Source Control: Git, AccuRev, SVN, SourceSafe, P4