

Simon Raviv

Experienced software engineer and technology enthusiastic!

Participating in all parts of the development process: Design, implementation, testing and debugging.
Working on cross platform high performance SW acceleration at various levels of the stack, including:
Low level SW-HW interfaces, system level, library level and application level.

Experienced with full system view, system debugging and system performance.
Experienced in the field of networking, including: TCP/IP stack, InfiniBand and RDMA.
Implementation experience with C++ and Python SW languages.

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Work Experience:

2020 – present – SW Engineer, NVIDIA

2019 – 2020 – SW Engineer, Mellanox Technologies

- **C++ Developer - [Rivermax](#)** - Streaming SW Acceleration Library:
 - SW streaming library for Media and Entertainment, Smart Cities and CDNs
 - High performance C++
 - Cross platform kernel bypass - Windows/Linux
 - High bandwidth and low latency IP-based library
 - Optimized software library API for the media (and more) streaming application
- **C++ Developer - [VMA](#)** - Networking SW Acceleration Library:
 - Network stack (TCP/IP) SW acceleration library
 - High performance C++
 - Boosts the performance of message-based and streaming applications across a wide range of industries
 - Linux user-space library with full kernel network stack bypass
 - Enabling user-space networking for TCP/UDP streaming
 - Allows application written over standard socket API to run over Ethernet and/or InfiniBand
 - Open Source library project that exposes standard socket APIs with kernel-bypass architecture

2015 – 2019 – SW Engineer, Mellanox Technologies

- **Python Developer - [Gperf](#)** – Network benchmarks management:
 - SW to manage, run and report of various network benchmarks
 - Object oriented & cross platform - Windows/Linux/FreeBSD
 - Client-Server architecture, using RPC server for the communication
 - Includes rational SQL Oracle DB
- **Python Developer - [Neohost performance plugin](#):**
 - Python backend OOP SW
 - A plugin for sampling and analyzing HW info
 - Working with HW
- **Performance BI System** (Based on Oracle BI):
 - System to view, monitor and analyze performance results
 - Collecting and defining the requirements
 - Defining the use cases
 - Designing and defining of the system usage
 - Work closely with the implementing team on the definitions, requirements and use cases
- **C Developer - [Perftest](#)** - RDMA performance benchmark:
 - High performance C written benchmark
 - Client – Server Remote Direct Memory Access performance benchmark
 - Cross platform - Linux/FreeBSD

SW Languages: Python, C, C++, JAVA, Assembly, C#(basic), Bash(basic) and more

Tools: Visual Studio, Visual Studio Code, Git, Visual Paradigm, PL/SQL Developer, Eclipse and more

Academic Education:

2012 – 2017 – ORT Braude Academic College

- B.Sc. in Software Engineering, **summa cum laude, GPA 90.28**
- Tutoring students at software and mathematics courses
- Part of the college excellence program, includes projects in first and second years and R&D final project

Military Service:

2009 – 2012 – Operations Sergeant at elite forces

- Responsible for managing the training and operations of the unit. Top secret clearance.

Languages:

Hebrew – Native speaker, **English** – Professional speaker, **Russian** – Intermediate