

https://basels.github.io/ | baselg21@gmail.com | Los Angeles, California, USA

FDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA PhD. STUDENT, COMPUTER SCIENCE

2018 - Present | Los Angeles, CA, USA Research Interests: Knowledge Graphs, Semantic Web, Linked Open Data, Machine Learning, Information Extraction & Technology

TEL AVIV UNIVERSITY

BSc. ELECTRICAL ENGINEERING

2011 - 2015 | Tel Aviv, Israel Specialization Areas: Computer Science, Communications and Electronic Devices magna cum laude. GPA: 93.33

INTERNSHIPS

RESEARCH SCIENCE INSTITUTE

RESEARCH INTERN (COMPUTER SCIENCE) 2009 | Cambridge, MA, USA Studied and practiced Statistical Natural Language Processing, Automatic Speech Recognition and Machine Learning. Research hosted by HP Autonomy & MIT

AWARDS

MOMACS INSTITUTE

RECIPIENT OF THE FORD FOUNDATION 2019 | Pittsburgh, PA, USA

TEL AVIV UNIVERSITY

FACULTY DEAN'S LIST OF OUTSTANDING **UNDERGRADUATE STUDENTS** 2013 | Tel Aviv, Israel

"FREESCALE SEMICONDUCTOR ISRAEL" **EXCELLENCE SCHOLARSHIP** 2013 | Tel Aviv, Israel

SKILLS

LANGUAGES

English • Arabic • Hebrew • Russian

PROGRAMMING

Proficient:

Python • C++ • C • Unix Shell & Bash Experienced:

C# • MATLAB • VHDL • Assembly

Ruby on Rails • HTML • CSS • JavaScript

HOBBIES

Combined Martial Arts • Graphic Design

• Soccer • Music Production

EXPERIENCE

INFORMATION SCIENCES INSTITUTE

2018 - PRESENT

RESEARCH ASSISTANT, CENTER ON KNOWLEDGE GRAPHS

Aug 2018 - Present | Marina del Rey, CA, USA

- Working on knowledge graphs and the semantic web with an emphasis on data normalization as a means to solve complex information integration problems
- Investigating methods to leverage machine learning techniques and knowledge graphs to establish automatic data extraction tools for scientific modeling

APPLE 2018

EMBEDDED FIRMWARE ENGINEER, FLASH STORAGE SOFTWARE DEPARTMENT Jan 2018 - June 2018 | Herzliya, Israel

- Designed and developed complex SW modules for ultra high performance, real-time embedded systems in a multiprocessor environment for Apple products
- Defined firmware features and led vertical integration with other modules in storage stack (i.e. drivers, file-system)

MELLANOX TECHNOLOGIES

2011 - 2017

SENIOR FIRMWARE ENGINEER & TEAM LEADER, SWITCH SILICON CORE DEPARTMENT Apr 2017 - June 2017 | Tel Aviv, Israel

- Managed team of 5 engineers
- Led the 100GbE Switch Systems firmware development process and verification activities - an agile operation involving 16 engineers
- Developed a distributed functional testing environment, debug tools and performance testing in C++ in Unix for both Ethernet and InfiniBand fabrics in Data-Link and Network layers of the OSI (static and dynamic analysis)
- Delivered technical presentations to 50+ developers from various teams
- Awarded for excellence and ranked "Superior" (top 5% out of 3000)

MWS19 GRADUATE STUDENT TRAVEL GRANT TEAM LEADER FIRMWARE ENGINEER, SWITCH SILICON CORE DEPARTMENT May 2015 - Mar 2017 | Tel Aviv, Israel

- Managed team of 3 engineers
- Contributed to end-to-end development for the company's 100GbE Switch products and led a full silicon bring-up process: Pre and Post-Silicon
- Conducted personal training, code reviews; defined coding-style and methodologies of software engineering for team of 30
- Optimized shared library cross-platform code, resulting in 40% reduction in project compilation time for 90+ department developers
- Supervised remote testing processes operating in China & USA
- Represented company in the 2016 VSF Interoperability Event (TX, USA)

FIRMWARE ENGINEER, SWITCH SILICON CORE DEPARTMENT

Mar 2014 - Apr 2015 | Tel Aviv, Israel

- Introduced simulation tool saving up to 50% time in firmware development cycle
- Developed "Stress" tool that has become major tool for system production/screening, power measurements and debug process
- Created training-program for new employees and conducted daily technical and architectural guidance and coding assistance
- Represented company in the 26th IBTA Plugfest (NH, USA) & HVC15 (Haifa)

FIRMWARE STUDENT, SWITCH SILICON CORE DEPARTMENT

Oct 2011 - Feb 2014 | Tel Aviv, Israel

- Developed ANSI-C compiler-specific code to run on Switch Systems RISC
- Managed and optimized Python-based regression system
- Implemented cross-platform error-injection and functional-validity tool used by both departments of Switch Systems and Channel Adapters