 Basel Shbita

https://basels.github.io/ | basel921@gmail.com | Los Angeles, California, USA

EDUCATION

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 MWS19 GRADUATE STUDENT TRAVEL GRANT
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
Familiar:
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 and deep learning techniques to establish automatic information extraction and knowledge graph construction

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)

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