KfirLev-Ari

PhD student

Contact

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Languages

Hebrew mother tongue
English fluency
Hungarian basic
German basic

Programming

♥ Go, Java,
Python, JavaScript,
C, C#, PHP

Education

2013–Now **Doctor** of Philosophy — EE Department, Technion, Israel
Developing a methodology for proving correctness of concurrent algorithms, and examining implications on distributed systems.
Under the supervision of Prof. Idit Keidar. GPA 95.

2006–2010 **Bachelor** of Science — CS Department, Technion, Israel
Software Engineering, GPA 87.

Experience

2015 **Google** — Mountain View, CA, USA
Summer Research Intern, Distributed Storage Analytics group
Working on large scale load-balancing.

2014 **Yahoo! Labs** — Haifa, Israel
Summer Research Intern
Scaling distributed systems while maintaining their semantics.
Focusing on ZooKeeper and its internals.

2013–Now **TA and Lab Tutor** — CS and EE Departments, Technion, Israel
Teaching Computer Security, Java and Android. Supervised several projects focused on cutting-edge technologies.

2011-2013 **Wanova (acquired by VMWare)** — Netanya, Israel
Software Engineer
R&D of Mirage client-side – a cloud-based solution for managing Windows machines. Intensive work with Windows internals.

2009-2011 **Zoran (acquired by Qualcomm)** — Haifa, Israel
RT/Embedded Software Engineer
Developing drivers on top of heterogeneous architecture, as well as supporting customer integrations.

2009 **Laboratory of Computational Biology** — CS Department, Technion, Israel
Software Developer
Developing Superlink Online.

Awards

2014 **Faculty Persistent Excellent TA** — CS Department, Technion

2013 **Faculty Excellent TA** — CS Department, Technion

2006-2010 **Awards for Excellence** — CS Department, Technion
Multiple Technion President awards for excellence (Summa Cum Laude), multiple Computer Science Dean awards for excellence (Cum Laude).

Publications

International peer-reviewed conferences

Modular Composition of Coordination Services
Kfir Lev-Ari, Edward Bortnikov, Idit Keidar, Alexander Shraer
2016 USENIX Annual Technical Conference (USENIX ATC 16), 2016, Denver, CO

A Constructive Approach for Proving Data Structures' Linearizability
Lev-Ari Kfir, Chockler Gregory, Keidar Idit
Proceedings of the 29th International Conference on Distributed Computing, 2015, Tokyo, Japan

On Correctness of Data Structures under Reads-Write Concurrency
Lev-Ari Kfir, Chockler Gregory, Keidar Idit
Proceedings of the 28th International Conference on Distributed Computing, 2014, Austin, Texas

Patents

Device dependent rules for synchronizing desktop images and managing hardware dependencies
I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
US Patent App. 13/732,317, 2013

Fast provisioning of a centralized virtual desktop using linked clones
I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
US Patent App. 13/732,312, 2013

Independent synchronization of virtual desktop image layers
I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
US Patent App. 13/732,320, 2013

N-way synchronization of desktop images
I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
WO Patent App. PCT/US2012/072,342, 2013

Professional Interests

Distributed systems, concurrent data-structures, parallel computing, correctness criteria.