Lefteris Ioannidis

Personal Data

Place and Date of Birth:	Thessaloniki, Greece | Jan, 20 1992
Address:	428 Memorial Drive, Cambridge, MA
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Work Experience

Current / Sep 2014 — Undergraduate Researcher at the Compilers@MIT Group, *CSAIL*
Parallel Intermediate Representation for the LLVM Compiler
Designed a Parallel Intermediate Representation (PIR) for the LLVM Compiler and added Parallel Optimizers to LLVM based on the new PIR. Relevant code will be pushed to the mainstream branch of LLVM. Worked in close collaboration with the SuperTech group at CSAIL and the LLVM developer community.

Summer 2014 — Graduate Firmware Engineer at Intel, Hillsboro, OR
Wireless Sensor Network for Datacenter Monitoring
Worked on the *Internet of Things (IoT)* research branch of Intel. Designed and wrote Firmware for Intel embedded microprocessors in a wireless mesh network configuration for large-scale Datacenter monitoring. Internal publication in Aug 2014, external publication pending.

March 2013 - June 2014 — Systems and Networks Administrator at the MediaLab, *MIT*
Systems and Networks Administrator for the Mobile Experience Lab. Responsible for the security, constant uptime and maintenance of 5 physical servers and over 100 websites.

Summer 2013 — Software Engineering Intern at MokaFive, Redwood City, CA
Extended LiveCloud (TM), a cross-platform, secure cloud storage system, to use Peer-to-Peer file transfers. Design based on untrusted ticket servers, untrusted clients and a secure central management console.

Education

June 2016 *Expected* — Master of Electrical Engineering and Computer Science, *MIT*, Cambridge, MA
Thesis: *Parallel IR for the LLVM Compiler* | **Advisor:** Prof. Saman Amarasinghe
Concentration: Computer Systems

June 2015 *Expected* — Bachelor in Electrical Engineering, *MIT*, Cambridge, MA
GPA: 4.0/5.0 | **Major:** Electrical Engineering and Computer Science
Took courses in Electrical Engineering, Software Engineering, Computer Security, Operating Systems, Machine Learning and Computer Architecture.

Scholarships

Sept. 2014 — Research and Innovation Scholars Program, under Prof. Saman Amarasinghe, *MIT*
2011-2015 — Undergraduate Researcher Award through Student Financial Aid, *MIT*

Programming Skills

Proficient:	Python, C/C++, C#, Java, x86 ASM, Matlab, Bash/Csh, LaTeX.
Intermediate:	Javascript, HTML, Haskell, Go, Chapel, ARM ASM.
Software:	Linux, GIT, SVN, Tomcat, VIM, GDB, Valgrind, OpenTuner.

System Adminstration Skills

Proficient:	Linux, Debian/Ubuntu, Apache, OpenSSL, SSH/SFTP, Kerberos, OpenLDAP, XEN.
Intermediate:	FreeBSD/OpenBSD, PostgreSQL, mySQL, DHCP, IPSec, OpenStack, KVM.