

Lef IOANNIDIS

PERSONAL DATA

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WORK EXPERIENCE

- MAY 2016 - OCTOBER 2017 Software Architect at UNIFYID, San Francisco, CA
First engineer, designed and implemented the UnifyID back-end for secure, implicit authentication.
Built the docker microservices based back-end, written in Golang, NodeJS and Python.
Implemented real-time Deep Learning models in production, with encrypted data pipelines.
In charge of engineering and engineering interviews.
- SEPTEMBER 2015 - MAY 2016 Security Engineer at APPLE, Cupertino, CA
FairPlay and DRM group
Apple Confidential Project. Relevant to Application Security, Secure Compilers, Binary Hardening.
Ensuring the FairPlay daemon and FairPlay DRM suite are immune to static and runtime analysis attacks.
- SUMMER 2014 Graduate Firmware Engineering Intern at INTEL, Hillsboro, OR
Wireless Sensor Network for Datacenter Monitoring
Worked in the *Internet of Things (IoT)* branch of Intel. Designed and wrote Firmware for embedded microprocessors, connected in a wireless mesh network configuration. Used for large-scale Datacenter monitoring. Intel internal publication Aug 2014.

EDUCATION

- JUNE 2015 BACHELOR'S IN COMPUTER SCIENCE, *MIT*, Cambridge, MA
Major: ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
Thesis: *Parallel Instructions for the LLVM Compiler* | **Advisor:** Prof. Saman AMARASINGHE, CSAIL
Focus: Software Engineering, Computer Systems, Computer Security, Cryptography, Operating Systems, Computer Architecture, Electrical Engineering and Machine Learning.

HONORS & AWARDS

- APR. 2017 **Speaker**, Data aware Nginx for Machine Learning, Nginxconf 2017, Portland, OR.
APR. 2017 **Speaker**, Scalable ML microservices on GPUs, Dockercon 2017, Austin, TX.
FEB. 2017 **Speaker**, Secure, real-time data collection on mobile, MadCon 2017, Austin, TX.
MAR. 2017 **Winners**, Security category, First engineer at UnifyID, SXSW pitch competition 2017, Austin, TX.
FEB. 2017 **Winners**, First engineer of UnifyID, RSA Innovation Sandbox 2017, San Francisco, CA.
AUG. 2016 **Runner-up**, First engineer of UnifyID, TechCrunch Disrupt Battlefield 2016, San Francisco, CA.
SEPT. 2014 **Research and Innovation Scholar**, SuperUROP, EECS Department, *MIT*
2011-2015 **Undergraduate Researcher Award**, Financial Aid, *MIT*

SOFTWARE ENGINEERING

- Skills: Systems Architecture, Microservices, Design & Implement Secure, fault-tolerant systems, REST API, Public-Private Key infrastructure, Certificates, Cryptography, Distributed Systems, Operating Systems, System Administration.
- Languages (expert): Go, C/C++, Java, Javascript, Python, SQL, x86/ARM ASM, Bash.
- Languages (intermediate): Elixir, Lua, Swift, \LaTeX .
- Software: Linux, FreeBSD, Docker, Nginx, MongoDB, GIT, VIM, LLVM, GDB, IDA Pro.