Eleftherios (Lef) Ioannidis

Info

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Work Experience

March 2019 - Today — Investment Engineer at Bridgewater Associates, Westport, CT
Working on systematic investment logic.

May 2016 - October 2017 — Software Architect at UnifyID, San Francisco, CA
Principal engineer, designed and implemented the UnifyID back-end for implicit authenticaton. Managed a team of 15 engineers, handled all technical interviews.

September 2015 - May 2016 — Security Engineer at Apple, Cupertino, CA
FairPlay and DRM group
Application Security, LLVM Compiler, Reverse Engineering and mitigation.

Education

January 2019 — Master's in Engineering, *CSAIL MIT*, Cambridge, MA
Major: Computer Science.
Thesis: *Extracting and optimizing low-level bytecode from high-level verified Coq*
Advisor: Frans Kaashoek, Nickolai Zeldovich, Adam Chlipala, CSAIL

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

Conference Talks

Apr. 2019 **Speaker**, MCQC: Extracting and optimizing formally verified code, NASA Formal Methods Symposium (NFM 2019), Houston, TX.
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.

Software Engineering

Skills: Programming Languages, Security, Formal Verification, Functional Programming, Systems, Architecture, Compilers, High Performance Engineering.
Languages (expert): Haskell, Scala, C/C++, Elm, Java, Go, JS, Bash.
Languages (intermediate): Coq, Prolog, Lua, Swift, LaTeX.
Software: Linux, Docker, Kubernetes, SQL, MongoDB, GIT, LLVM.