

Faye Duxovni
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EDUCATION

Massachusetts Institute of Technology
Bachelor's and Master's in Computer Science
with Minor in Mathematics
GPA: 4.9/5.0

Cambridge, MA
June 2018

COURSEWORK

- 6.858 Computer Systems Security
- 6.828 Operating System Engineering
- 6.887 Formal Reasoning About Programs
- 6.805 Foundations of Information Policy

EXPERIENCE

Security Researcher II

Akamai

Summer 2018–Present
Cambridge, MA

- Conducted system-theoretic analyses of recent and ongoing incidents
- Led review meetings to learn from incidents and identify ways to improve our processes and mitigate hazards
- Contributed to development of an improved dashboard for tracking current and past incidents

Research Assistant

MIT CSAIL

Summer 2017–Spring 2018
Cambridge, MA

- Worked on formal proofs of safety from timing-based side channel attacks for cryptographic code running on specific RISC-V CPU implementations

Information Security Intern

Akamai

Summer 2016
Cambridge, MA

- Developed a software tool to detect security vulnerabilities in server configuration files
- Implemented automatic generation of example security exploits using the Z3 constraint solver

Software Engineering Intern

Pure Storage

Summer 2015
Mountain View, CA

- Improved Pure Storage's internal benchmarking system, making it easier to submit code for benchmarking and view results
- Added new diagnostics to Purity software, aiding in discovery of potential performance improvements

SKILLS

- Experience with Unix/Linux, Python, Rust, C, Go, Haskell, HTML, Javascript, Coq, and \LaTeX
- Some familiarity with Ruby on Rails, Ur/Web, Java, C#, and OCaml
- Conversational Japanese

INDEPENDENT PROJECTS

- Developed a cryptographic protocol for discovering mutual crushes using secure two-party computation, and created a web app implementing the protocol
- Maintained and administered an instance of the Mastodon federated social network for the MIT community, and contributed patches to the upstream Mastodon codebase.
- Contributed code to an on-demand computing cluster system under development by the MIT Student Information Processing Board