

EDUCATION

- Massachusetts Institute of Technology**
Master of Engineering in Electrical Engineering and Computer Science
Concentration in Computer Systems

Cambridge, MA
September 2022 – June 2023
GPA: 5.0/5.0
- Massachusetts Institute of Technology**
Bachelor of Science in Electrical Engineering and Computer Science
Concentration in Philosophy

Cambridge, MA
September 2018 – May 2022
GPA: 4.5/5.0

EXPERIENCE

- Microsoft – Intune Android Mobility**
Software Engineer

Cambridge, MA
June 2020 – August 2022 (intern), July 2023 – Present

 - **Android enterprise device policy enforcement:**
 - * Developing solutions for secure, managed application delivery to Android devices
 - * Maintain Microsoft SLAs for CRIs involving clients and application/policy delivery
 - * Collaborate broadly with 4 internal partner teams, as well as Google
 - **Android management agent security:**
 - * Secure Future Initiative - Improve Android Clients' Security Posture
 - Improved root detection capabilities and other defenses for two of our three management agents
 - Urgent part of a response to wide-scale cyber attacks in July 2023 and January 2024
 - Hardened management agents on tens of millions of devices
 - **Internship:**
 - * Display battery information for Zebra devices to admins
 - * Contributed to policy configuration for the Android Open Source Project management agent at its inception
 - * Developed infrastructure for shared code in the Intune Android org, reducing duplication of code between 5 large products
- Massachusetts Institute of Technology**
Graduate Researcher, Teaching Assistant

Cambridge, MA
February 2022 - May 2023

 - **Graduate Researcher:**
 - * Investigated solutions to out-of-memory problems faced by ML algorithms using extremely large datasets under Professor Arvind.
 - **Teaching Assistant – Constructive Computer Architecture:**
 - * Taught computer architecture to a cohort of 30 students under Professor Arvind
 - **Head Teaching Assistant – Principles and Practices of Assistive Technology:**
 - * Worked closely with Dr. Kyle Keane to revamp curriculum (last taught in 2019)
 - * 20 students, 6 final projects in the hands of real clients
 - * Recorded for the online learning platform MITx

PROJECTS

- Pigeon File System**

February 2021 - May 2021

Created Frangipani-like distributed file system running on top of a Raft Key/Value store with a journaling file system, offering atomic writes and a POSIX-like API. Emphasis on consistency and reliability above all else.

SKILLS

- **Languages:** Kotlin, Python, C++, Golang, Kusto/SQL, Powershell/Bash, Spanish, Japanese
- **Technologies:** Android, Deep Neural Nets, PyTorch, OpenCV, ADO, React
- **Interests:** Performance Engineering, OS, Computer Architecture, Cybersecurity, Infrastructure