

EDUCATION

University of California, Berkeley • Class of 2024

- Double Major in Honors Mathematics and Computer Science, 3.93 GPA

Ashbury College • Class of 2020

- International Baccalaureate Diploma, 3.95 GPA

ACT – 36; SAT Subject Test – Physics (800), Math (800)

WORK EXPERIENCE

Telesat Engineering Intern • Ottawa, ON

Summer 2023

- Prototyped and investigated a novel approach to satellite user terminal operations.
 - Investigated past research and designed experiments to collect data
 - Processed data with MATLAB and machine learning approaches with Pytorch
 - Presented findings and wrote a detailed report of methods, feasibility, and limitations

Red Hat, Inc. Software Engineering Intern • Berkeley, CA

Summer 2021

- Created the devfile landing page with React at devfile.io
 - Used Patternfly React along with HTML, CSS, and Javascript
 - Worked with other interns to coordinate the migration of the docs and registry

1251 Capital Group Summer Intern • Ottawa, ON

August 2020

- Conducted investment analysis and research.

Research Science Institute Research Mentorship in MIT Media Lab • Cambridge, MA

Summer 2019

- Developed software to educate about bias in machine learning and wrote a research paper.

Mercury Filmworks IT Intern • Ottawa, ON

June 2018

- Set up hardware and wrote software to automate their animation pipeline.
 - Set up computers and installed Windows along with animation software
 - Wrote a Python script using FFmpeg to process animation files and deliver to supervisors

PROJECTS & CERTIFICATIONS

CompTIA Security+ Certification

July 2025

Super Smash Bros Melee Decompilation Project • Open Source Contributions

Feb 2025-Present

- Read PowerPC assembly code and wrote C code that compiles into exactly matching code
 - Contributed part-time in collaboration with other developers:
github.com/doldecomp/melee/pull/1491
- Debugged the unlinking of data and symbols to correctly separate object files

Secure File Sharing System • CS161

Fall 2024

- Designed and built a secure system of encrypting and sharing files over an insecure database using Golang with security and performance constraints
 - Used both asymmetric and symmetric encryption and hashing to ensure confidentiality, integrity, and authenticity

TECHNOLOGY/SKILLS

Languages: Python, Java, C, Go, JavaScript, MATLAB, HTML/CSS

Dual Citizenship of US and Canada

Skills: Computer security, machine learning, algorithms and data structures, collaborative software development