

ANTON CAO

✉ antoncao@mit.edu

☎ 408-650-2426

🌐 antoncao.me

in linkedin.com/in/antoncao

🔗 github.com/Anton-Cao

EDUCATION

Massachusetts Institute of Technology

Bachelors in Computer Science

📅 Aug 2017 – May 2021 📍 Cambridge, MA

- GPA: 4.9/5.0
- Relevant Coursework:
 - Systems: Performance Engineering, Operating Systems, Distributed Systems, Computer Security, Embedded Systems, Computer Architecture
 - Algorithms: Algorithmic Engineering, Design and Analysis of Algorithms, Machine Learning
 - Math/Physics: Probability, Linear Algebra, Quantum Physics

WORK EXPERIENCE

Stripe

Software Engineering Intern

📅 June – Aug 2020 📍 Remote

- Built a dashboard to track code quality contributions across the engineering organization
- Conducted user research interviews and iterated on the design and implementation of the project

Jane Street Capital

Software Engineering Intern

📅 June – Aug 2019 📍 Manhattan, NY

- Built tools for traders at the firm using OCaml
- Attended classes on topics in finance, systems design, and functional programming

Amplitude Analytics

Software Engineering Intern

📅 June – Aug 2018 📍 San Francisco, CA

- Designed and implemented Impact Analysis, a tool that helps Amplitude's customers identify cause and effect relationships in their products
- Wrote a MapReduce algorithm on a distributed database

RESEARCH

Parallel Distributed Operating Systems (PDOS)

Undergraduate Researcher

📅 Aug 2019 – May 2020 📍 MIT CSAIL

- Contributed to Ward, an experimental operating system with efficient side-channel attack mitigations

SKILLS

Languages: Python, Java, Ruby, Golang, C/C++, OCaml, Javascript

Technologies: Git, Nginx, Unix, Amazon Web Services (EC2, S3), Vim/Spacemacs

ACHIEVEMENTS

- Placed in top 300 in Round 3 of the 2019 Google Code Jam
- Placed in top 180 in the 2017 Putnam Math Competition

ACTIVITIES

6.036: Machine Learning

Lab Assistant

📅 Aug 2019 – Dec 2019 📍 MIT

- Helped students with weekly problem sets and lab assignments for MIT's undergraduate machine learning course
- Worked through and provided feedback on assignments and labs to instructors and TAs

TechX

Director of DevOps

📅 Mar 2018 – Mar 2019 📍 MIT

- Led a team of students to build the software for TechX events like MakeMIT (MIT's hardware hackathon) and xFair (MIT's Spring Career Fair)
- Managed infrastructure using technologies such as Amazon Web Services, Nginx, Cloudflare, and LetsEncrypt

PROJECTS

Virtual Midway

🌐 <https://midway.techx.io/>

- Led a team of students to build a website to showcase MIT's clubs to the class of 2024
- Used by over one hundred clubs and incoming students

Spectre Exploit Code

🌐 <https://github.com/Anton-Cao/spectrev2-poc>

- Wrote proof-of-concept attacks to demonstrate the Spectre variant 2 vulnerability as part of my research in PDOS
- To my knowledge, this is the only proof-of-concept code available for Spectre variant 2