

# Andrew Li

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## Education

**Massachusetts Institute of Technology – Cambridge, MA**

**2021 – 2024, MEng 2025**

**B.S. in Electrical Engineering and Computer Science, Minor in Mechanical Engineering (4.9/5.0)**

Relevant Coursework:

Data Structures & Algorithms, Computer Architecture, Computer Networks, Autonomous Machines, Machine Learning

## Skills and Projects

### Attestfor.me

- Bot for MIT students to sign up for automatic attestations to MIT's COVID system to ensure they maintained access to campus
- Reverse-engineered MIT's COVID Android app to programmatically login through their SAML and OAuth flow
- **Built with Python, Java, Flask, AWS DynamoDB and EC2, Linux services and cron jobs**

### WHS Scheduler

- iOS/Android app with >10,000 downloads helping Westside High School students check their schedule and next classes that change day-to-day and meet with teachers without relying on paper
- Designed, developed, and maintained app for 4 years and added backend for school administration access
- **Built with React, React Native, TypeScript, REST, Node, Express, MongoDB, Adobe XD and Illustrator**

### Feather

- Lead maintainer of HackMIT's and user management platform used by >1000 participants at our hackathons twice a year
- Handles user registration and check-in, applications, email sending, and integrates SSO into separate judging platform
- Managed 5 peers and scheduled sprints, distributed tasks, taught web development
- **Built with Python, Flask, AWS EC2, Node, React, PostgreSQL, Docker**

## Experience

**Cloud Services Engineer Intern, Palo Alto Networks – Santa Clara, CA**

**May 2022 – August 2022**

- Created an internal access control system for the Global Customer Support team to access customer data and debug their issues
- Used LDAP databases, Kubernetes, SAML to integrate into the current authentication/authorization flow
- Implemented micro-frontend architecture in React
- Onboarded new team member to hand off project and organized biweekly syncs

**Undergraduate Researcher, MIT Media Lab – Cambridge, MA**

**Jan 2022 – Feb 2022**

- Led frontend team of the Indoor IoT project, using RFID tags and SLAM techniques to map and place items in 3D
- Developed frontend app in React, D3.js, and GraphQL on AWS to interact with scanned 2D and 3D maps, items
- Developed iPad app to transform 3D room scans into 2D SVG floorplans in Objective-C++ and OpenCV

**University of Nebraska Omaha – Omaha, NE**

**Teaching Assistant, Department of Mathematics**

**Jan 2021 – May 2021**

- Graded homework and exams for Number Theory and Cryptography course
- Held weekly office hours over Zoom

**Student Researcher, Department of Mathematics**

**Summer 2020**

- Solved a certain class of non-linear Diophantine equations via their related elliptic curves
- Published paper as sole author, *Bulletin of the Australian Mathematical Society*, Vol 104 (1), 21 - 28
- Wrote scripts in Python and SageMath to automate calculations

## Leadership and Involvement

**Vice President and Social Chair, MIT Festival Jazz Ensemble and Jazz Combos**

- Organized and played gigs at MIT events with >\$2000 in revenue
- Held sectionals teaching peers big band playing and saxophone techniques
- Planned get-togethers and jam sessions for band members

HackMIT, Student Information Processing Board, Music Production Collaborative, Code for Good

## Awards

**MIT Emerson Jazz Fellow**

**2021 –**

**Winner in Jazz, National YoungArts Competition**

**2021**

**Top 10 of >5600, Breakthrough Junior STEM Video Challenge**

**2020**