

## education

### University of New South Wales, Sydney Australia

Jul. 2018 – May. 2021

*B.S. in Computer Science*

Weighted Average Mark for all Comp-Sci courses: 96.1/100, High Distinction

Academic Statement at <https://adamyi.io/transcript>

## experience

### School of Computer Science and Engineering, University of New South Wales - Casual Academic

Feb. 2020 – Present

- Chosen by professor to tutor database course (COMP3311) and networks course (COMP3331/9331) for both undergraduate and postgraduate students
- Technical course admin for web application security course (COMP6443/6843). Developed and run course infrastructure with 100+ services. Designed and marked assignment and exam questions for 180+ students.

### CHIMPS Lab, Human-Computer Interaction Institute, Carnegie Mellon University - Research Assistant

Dec. 2016 – Oct. 2018

- Designed and implemented an extensible architecture to MessageOnTap ([adamyi.io/mot](https://adamyi.io/mot)) for Android while contributing 20,000+ lines of Java code as code owner for MessageOnTap API ([adamyi.io/mot-api](https://adamyi.io/mot-api))
- Developed a general-purpose web-based crowd-sourcing system for text annotation tasks ([adamyi.io/annotator](https://adamyi.io/annotator)) in Python, that was used to scrub 65,000+ pieces of data by 2,500+ crowd workers.

### MUNPANEL - Founder & Chief Technology Officer

Nov. 2016 – Jul. 2017

Led a team of 4 to develop and run an online Model United Nations platform, which has served 3 conferences, 170+ registered schools, and 2,000+ registered users, with 500+ max daily active users, 235,000+ total visits and 490,000+ CNY cash flow.

## activities

### Capture the Flag (CTF) Author

Mar. 2019 – Present

Created 10+ CTF challenges ([adamyi.io/ctfs](https://adamyi.io/ctfs)) for the community, including for SecTalks Sydney, UNSW Security Society, and SECedu.

### White Hat Hacker/Cybersecurity Researcher

Feb. 2015 – Present

Discovered 10+ vulnerabilities in various bug bounty programs like Atlassian's.

### Google Developers Community Programs - Translator (Volunteer)

Jun. 2016 – May. 2018

Reviewed and translated Google's dev videos, docs, and blog posts. Invited to Google I/O as a Community Partner.

## open source

### CTFProxy (Docker, Bazel, Golang, Python)

[github.com/adamyi/CTFProxy](https://github.com/adamyi/CTFProxy)

Scalable CTF infrastructure, with a BeyondCorp-like zero-trust network and simple infrastructure-as-code configuration. This was used for SECedu CTF 2019 and UNSW's Web Application Security (COMP6443/6843) course in 2020

### golinks (Python, Google App Engine, Cloud Datastore)

[github.com/adamyi/golinks](https://github.com/adamyi/golinks)

A Google-like go/ links service integrated with G Suite

### Notes to Keep (Python)

[github.com/adamyi/notes\\_to\\_keep](https://github.com/adamyi/notes_to_keep)

Export Apple iCloud Notes to Google Keep

### v6dns (NodeJS)

[github.com/adamyi/v6dns](https://github.com/adamyi/v6dns)

A DNS Server which enforces local devices to prioritize IPv4 or IPv6

### sqlite-parser (C++)

[github.com/adamyi/sqlite-parser](https://github.com/adamyi/sqlite-parser)

SQLite Parser for C++. Forked from sql-parser to address SQLite specific statements and switch to Bazel

## awards

### Dean's Award

2020

*UNSW Faculty of Engineering*, for 100 best performing student across the entire School of Engineering.

### 1st Place

2019

*UNSW CSE Performance Prize for Year 2*, for the single best performing second year CSE student.

### CommBank Cyber Prize

2019

*Commonwealth Bank of Australia*

### 2nd Place

Oct. 2018

*Cyber Security Challenge Australia (CySCA)*, run by Australian Government (Australian Cyber Security Centre, Australian Signals Directorate, AustCyber), Telstra, PwC, Cisco, Microsoft, Commonwealth Bank, Splunk, BAE Systems, HackLabs

### Gold Medal

Apr. 2015

*International Exhibition of Inventions of Geneva*, run by Swiss Federal Government