

## 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: 96.6/100, High Distinction

Note-worthy courses: *Data Structures and Algorithms* (99/100), *Ext. Web App Security & Testing* (100/100), *Database Systems* (100/100), *Cybersecurity Project* (100/100), *Computer Networks* (first place in class), *Web Data Compression & Search* (fastest project runtime), *Information Retrieval & Web Search* (best project performance)

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

## experience

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

Feb. 2020 – Present

Chosen by professor to tutor database course, teaching SQL and basic transactions and concurrency theories.

### White Hat Hacking (Ethical Hacking/Cybersecurity Research)

Feb. 2015 – Present

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

### 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)) in Java for Android, contributed 20,000+ lines of code, and was 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.
- Called by colleagues "strong developer with creative ideas" and "more intelligent and mature than many graduate students" in Liyao's blog post ([adamyi.io/cmu-refer-1](https://adamyi.io/cmu-refer-1)) and Fanglin's recommendation ([adamyi.io/cmu-refer-2](https://adamyi.io/cmu-refer-2))

### 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.

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

Jun. 2016 – May. 2018

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

### Chaoli Forum - Developer

Nov. 2014 – May. 2015

Developed functions like documents uploading, CDN integration, customer feedback, etc. for an online forum which now has 5,000+ users and 40,000+ threads.

## side projects

### SECedu CTF 2019 by UNSW and CommBank (Docker, Bazel, Golang, Python, C, Java, PHP, Typescript)

[github.com/adamyi/Geegle3](https://github.com/adamyi/Geegle3)

Built 20+ services and infrastructure for a fictional company as "hacking competition" target, including a zero-trust network environment (BeyondCorp-like). Also in charge of building, deployment, continuous integration, and stability of the entire system.

### 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

### AndroidWechatSQLiteDecrypt (Java)

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

Xposed module and toolchain to decrypt Android Wechat Database

### API Service Proxy (Docker, Python, Golang, PHP)

[github.com/adamyi/comp6443\\_asp\\_challenge](https://github.com/adamyi/comp6443_asp_challenge)

A vulnerable microservice infrastructure, used as an assignment for students in UNSW's Extended WebApp Security course

## awards

### Honorable Mention

Oct. 2018

**ACM-ICPC South Pacific Regional Sydney Site**, solved half of the questions without any prior training

### Second 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