

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) in Java for Android, contributed 20,000+ lines of code, and was code owner for MessageOnTap API (adamyi.io/mot-api)
- Developed a general-purpose web-based crowd-sourcing system for text annotation tasks (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) and Fanglin's recommendation (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

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

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

Notes to Keep (Python)

github.com/adamyi/notes_to_keep

Export Apple iCloud Notes to Google Keep

v6dns (NodeJS)

github.com/adamyi/v6dns

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

sqlite-parser (C++)

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

Xposed module and toolchain to decrypt Android Wechat Database

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

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