

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) for Android while contributing 20,000+ lines of Java code as 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.

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) 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 (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.

open source

CTFProxy (Docker, Bazel, Golang, Python)

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 20T2

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

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