

Education

University of New South Wales, Sydney Australia

Jul. 2018 – May. 2021

B.S. in Computer Science

Average Mark for all Comp-Sci courses: 93.8/100, High Distinction

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

Employment

School of Computer Science and Engineering, UNSW Sydney - Casual Academic

Feb. 2020 – Present

- Taught 500+ undergraduate and postgraduate students computer networks (COMP3331/9331), database (COMP3311), and web app security (COMP6443/6843)
- Developed course infrastructure for web application security course with 100+ micro-services in a Kubernetes cluster
- Designed and marked assignment and exam challenges
- Run consultation sessions for C language users to answer questions on Linux's low-level socket syscalls

Jane Street Capital - Software Engineer Intern

Dec. 2020 – Feb. 2021

- Worked on optimizing performance for internal distributed systems and reduced CPU usage for key routines by 80%
- Rewrote one of the servers for the next generation of one of our core market data system from scratch
- Contributed 12,000+ lines of code to our production OCaml, Java, and Scala codebase

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

Side Projects

CTFProxy (Kubernetes, Docker, Bazel, Golang, Python, Jsonnet)

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

MessageOnTap (Java, Android, HCI, NLP)

github.com/MessageOnTap

A development framework for developers to implement intelligent plugins for instant messaging apps by suggesting actions based on chat message semantics (research project at HCI, Carnegie Mellon University)

Productimon (Golang, C, C++, JavaScript)

github.com/productimon/productimon

A cross-platform activity/usage/screen time tracking and analysis tool that supports Linux, Windows, macOS, and Chrome OS/Chromium OS with a cross-platform core codebase that's easy to extend to other platforms

MUNPANEL (PHP)

github.com/munpanel/MUNPANEL_v1

An online high school conference registration system, which had served 3 conferences, 170+ registered schools, 2,000+ registered users, and 75,000+ USD cash flow

And many more, check them out on [🐙 adamyi!](https://adamyi.com)

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