

AdamYi

full-stack developer, white hat hacker and enthusiastic researcher

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programming

C, C++, PHP
Java, Golang, Python
Swift, Objective-C
Matlab, \LaTeX , Shell
Kotlin, JavaScript
CSS3 & HTML5

last updated

August 31, 2018
Rev. 12

education

University of New South Wales, Sydney Australia

Jul. 2018 – Sep. 2021

B.S. in Computer Science

Relevant courses: *Introduction to Programming*, *Digital Transformation in Business*, *System and Software Security Assessment* (unofficial student), *Digital Forensics and Incident Response* (unofficial student)

Beijing 101 High School, Beijing China

Sep. 2012 - Jul. 2018

Qian Xuesen Experimental Class

Relevant positions: Founding Director of the Technology Department of the Student Union

research

CHIMPS Lab, Human-Computer Interaction Institute, Carnegie Mellon University

Dec. 2016 – Present

Research Assistant

- Came up with the core architecture and co-developed MessageOnTap, an Android framework for developers to develop IM plugins, which will be open sourced in a few months, as one of the 4 core members in a team of 12 instructed by PhD student Fanglin Chen.
- Developed an online system and hired 2,500+ Amazon mTurk workers to annotate sensitive information in 65,000+ pieces of data for us to train a (WIP) deep learning PII (Personally Identifiable Information) scrubbing algorithm (DeepScrub).
- Received a GPU donation worth \$1,200 from NVIDIA Corporation to support myself to conduct research in NLP (Natural Language Processing).
- Trained a Word2Vec model with Reddit data to predict apps user might use.
- Designed a semantic-structured graph database (Pocket) for mobile personal data.
- Run the internal Git, Maven & Jenkins server used by our team.

Beijing 101 High School

Jul. 2014 - Oct. 2016

Independent Researcher

- Built a catkin collecting device to address the severe air pollution – specifically, airborne catkins – in China.
- Built a new type of particulate matter detector capable of detecting particulate matters of different diameters in varied environments or surfaces using the light scattering method.
- Won the gold medal of 43rd International Exhibition of Inventions of Geneva from Swiss Government and World Intellectual Property Organization and one of the Special Award from Taiwan Invention Association.
- Won the second prize of the 16th Awarding Program for Future Scientists, and received 20,000 CNY as a reward.
- Covered by media reports by news agencies including but not limited to Swissinfo (Swiss Broadcasting Corporation) and Xinhua News Agency (the official press agency of PRC).
- Selected into national ISEF training camp.

projects

White Hat Hacking (Ethical Hacking)

Feb. 2015 – Present

- Discovered 10+ vulnerabilities of large corporations, like GlobalCash, a prepaid MasterCard provider in Hong Kong, Apple Inc, Google LLC etc.
- Received 4,000 CNY award and a Huawei Smart Bracelet for discovering a zero-day vulnerability of eYou, the most widely-used email server software in China.
- Selected to compete in CySCA 2018, Australia's only national cyber security competition, on behalf of UNSW in October.

GDSUB (Google Beijing)

Jun. 2016 – Present

Translator (Volunteer)

- Translated English subtitles of Google Developer videos including I/O keynotes into Chinese for official Youtube, Youku and Bilibili.
- Invited to Google I/O in San Jose as a Community Partner.
- Reviewed and translated some of Google's official blog posts and announcements before releasing.
- Volunteered at/Co-organized several local events like TensorFlow Dev Summit 2018 Extended Beijing at Google Beijing Office.
- Co-developed Flutter's official website in China (flutter-io.cn).
- Currently integrating the official Tensorflow Developer Forum with reCAPTCHA and developing a special reverse proxy for Google Forms supporting several China-specific features like logging in with WeChat.
- Contributed to several open-source projects at Google.

Bojangles

Aug. 2018 – Present

Developer

- Co-developing a tool to help UNSW students plan their course schedule in a team of 4 within the CSE Society.
- In charge of the algorithm to generate possible timetables, and came up with a PoC with a Genetic Algorithm.

MUNPANEL

Nov. 2016 – Jul. 2017

Founder & Chief Technology Officer

- Came up with the idea to design an online Model UN system that connects all conferences, clubs, and MUNers together by facilitating organizers and participants of different conferences and clubs with one unified system.
- Led a team of 4 members to develop and run the Model UN platform, which has served 3 conferences, 170+ registered schools, and 2,000+ users, with 500+ maximum DAU (daily active users), 235,000+ total visits and 490,000+ CNY cash flow till July 2017.

Beijing Model United Nations Association for High School Students

Aug. 2016 – Aug. 2017

Director of Academics (English)

- Managed the largest MUN association in Beijing (60+ member schools) with 12 other co-organizers.
- Took charge of all facets of English committees in two largest Model UN conferences for high school students in Beijing, such as reviewing academic design, background guide, etc.
- Run the web, email, ns & git server of the association.

Chaoli Forum

Nov. 2014 – May. 2015

Co-Founder & Developer

- Developed functions like documents uploading, CDN integration, customer feedback, etc. based on esoTalk, a no-longer maintained open source forum program, as a member of the initial development team and founding team of Chaoli forum, a forum for Math, Physics, Chemistry, and Informatics lovers, which now has 5,000+ users and 40,000+ threads.