

# AdamYi

full-stack developer, white hat hacker and independent researcher

## contact

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## education

Beijing 101 High School  
2012 – 2018

## programming

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

## last updated

October 17, 2017  
Rev. 6

## computer science

### MUNPANEL

Jun. 2016 – Present

*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 2 conferences, 100+ registered schools, and 2,000+ users, with 500+ maximum DAU (daily active users) and 240,000+ total visits till August 2017.

### White Hat Hacker

Feb. 2015 – Present

- Discovered 10+ vulnerabilities of large corporations, like GlobalCash, a prepaid MasterCard provider in Hong Kong, Apple Inc, etc.
- Received 4,000 CNY award and a Huawei Smart Bracelet for free due to a zero-day vulnerability of eYou, the email software provider for many large corporations and government departments including the Office of State Council, I discovered.

### Google

Jun. 2016 – Present

*Translator*

- Volunteered to help translating English subtitles of keynotes and sessions of Google I/O 2016 and 2017 into Chinese for YouTube viewers and Study Jams groups.
- Got invited by Google DevRel to Google Beijing Office and as community partner to Google I/O 2017 in San Jose.
- Contributed to several open-source projects at Google.

### 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.

## model un

### Beijing 101 High School Model UN Club

Aug. 2016 – Aug. 2017

*Co-Leader*

- Attended more than 10 conferences in China as either delegate, academic team member, or organizing team member.
- Managed all the things inside the club as well as outside the club, which is the second largest club in Beijing 101 High School, together with 10 other students.
- Designed classes to teach new club members key Model UN skills such as game theories.

### Beijing Model United Nations Association for High School Students

Aug. 2016 – Aug. 2017

*Director of Academics (English)*

- Managed the largest Model UN association consisting of 60+ member schools together with 12 other organizing team members.
- Cooperated with my partner to take 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 www, email, ns & git server of the association.

## research

### MessageOnTap, PersonalGraph & DeepScrub

Dec. 2016 – Present

*Researcher*

- Came up with the core architecture and developed 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 under the guidance of Professor Jason Hong at CHIMPS Lab, Human-Computer Interaction Institute, Carnegie Mellon University.
- 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.
- Received a \$1,200 GPU donation from NVIDIA Corporation to support me to conduct research in NLP (natural language processing).
- Currently designing a semantic-structured graph database for mobile personal data.
- Run the internal Git, Maven & Jenkins server used by our team.

### A New Type of Catkin Collecting Device

Jun. 2015 - Oct. 2016

*Independent Researcher*

- Built a catkin collecting device to deal with the severe air pollution – to be specific, catkins flying in the air – in China on my own.
- Won the second prize of the 16<sup>th</sup> Awarding Program for Future Scientists, and 20,000 CNY as an award together with the prize.

### A New Type of Fast Particulate Matter Detector

Jul. 2014 - Apr. 2015

*Independent Researcher*

- Built a new type of particulate matter detector capable of detecting particulate matters under different diameters in different environments or on different surfaces using the light scattering method on my own.
- Won the gold medal of 43<sup>rd</sup> International Exhibition of Inventions of Geneva as well as a special award from Taiwan.
- Covered by media reports by news agencies including but not limited to Swissinfo (Swiss Broadcasting Corporation) and Xinhua News Agency.
- Applied for an invention patent CN105486617A.

## school activities

### Beijing 101 High School Student Union

Oct. 2012 – Present

*Director of Technology Department*

- Helped coordinate and check daily affairs of the whole grade as a member of the General Affairs Department of the Student Union of the grade from 2012 to 2015.
- Helped selling school souvenirs like bear and alpaca toys in school uniform, as a member of the Liaison Department of the School Student Union in 2016.
- Coordinated with the student union of other schools in Beijing to organize several large inter-school events like the inter-school Christmas Express.
- Elected as the founding vice director of the newly established Technology Department in October 2016 and became the director later.
- Recruited 2 extra members for the Technology Department and organized several tech-related events in school, such as the School Science Festival together.
- Provided Wi-Fi support for several important events in school on my own, such as the Adult Ceremony for senior students.

### TEDxYouth@Beijing101

Jun. 2014 – Present

*Technology Supervisor*

- Managed tech-related devices like the HDMI Matrix Switch and timer of TEDxYouth@Beijing101 2014 as the only grade 9 volunteer, and did the same thing in 2015.
- Co-organizing the next TEDxYouth@Beijing101 event as the technology supervisor, taking charge of all tech-related facets.