

MIKE HE

<https://ad1024.space>

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EDUCATION

University of Washington, Seattle

Sept. 2018 - Est. Sept. 2022

⇒ **Activities:**

- Participated *UW Solar Data* research project in 2019
- Joined in *Code Spree* RSO holding competitive programming lectures and contests

Beijing National Day School

Sept. 2012 - Jul. 2018

Member of Informatics Computing Contest Class

Backend Dev & President of HCC Computing Community

⇒ **Activities:**

- Participated in many competitive programming contests such as Codeforces, NOIp(National Olympiad in Informatics), CCC(Canada Computing Contest);
- Attended training session in computing contest class and held algorithm lectures for junior students in the class;
- Completed **Programming Languages** (CSE 341) course on Coursera.

EXPERIENCE

Xiaomi, Inc

Mar. 2014 - Mar. 2015

Test Engineer Intern

Remote

- Tested new features and reported system vulnerabilities and log analysis to other teams. Facilitated System Development Team identified and fixed 50+ critical issues ranging from memory corruption to bad UI interaction during system upgrades from V4.0 to V7.0; Participated alpha tests of MIUI 6.0 and MIUI 7.0 and provided optimization plans.

HCC Computing Community

Feb. 2015 - Mar. 2018

President & Lecturer & Web Developer

Beijing, China

- Developed & maintained a website named Shiyiquan for Beijing National Day School to manage student organizations using Django as its backend. Currently, organization management fully relies on the website, and the project is providing service for sister schools of BNDS.
- Developed Android client for Shiyiquan.
- Designed courses and lectures for high school students to learn Python, Android development and functional programming and held classes for students interested in computer programming.

UW Solar Data Research

Jan. 2019 - Now

Undergraduate Researcher

Seattle, WA

- Developed online panel for querying history data of solar panels set around UW campus;
- Developed real-time solar panel data monitor.
- Currently, I'm working on deploying the system to the lab, testing for its stability and optimizing the web-based panel.

PROJECTS

BNDS Online Judge

<https://github.com/AD1024/BNDSOJ>

Backend Developer

- Developed **BNDS Online Judge** for Beijing National Day School based on Universal Online Judge(UOJ). The OJ is being used as the official competitive programming training website as well as educational-use website for Python programming course.
- Extended functionalities to support homework reviewing, using blogs locally, etc.
- Implementations added to BNDSOJ are partially contributed to the UOJ community edition in order to make a user-friendly version of Universal Online Judge.

Blog

<https://github.com/BNDS-Programmers/Blog>

Full-stack Web Developer

A generic Blog system that is easy to be deployed and maintained.

- RTF and Markdown support;
- Embedded with KaTeX, fast math formula render engine;
- Code highlight for mainstream languages;
- Customize personal information page;
- User-friendly article management functions.

TECHNICAL STRENGTHS

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|----------------------------|---|
| Languages | Python3, C, Java, Javascript, PHP, Coq, Haskell |
| Backend Frameworks | Node.js, Django |
| Databases | MySQL, PostgreSQL |
| Directions of Study | Programming Languages & Formal Verification, Algorithms |
| SE Strengths | Web Dev, Android Dev |
| Tools | SVN, Github; JetBrains Tools; Sublime Text / Visual Studio Code |

HONORS

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|---|------------------|
| • Outstanding Developer Team , Xiaomi Inc. | <i>Mar. 2015</i> |
| • Second Prize , National Olympiad in Informatics | <i>Dec. 2016</i> |
| • Global Rank 33 , High School CTF 4 | <i>May. 2017</i> |
| • Second Prize , National Software Development Contest for High School Students. | <i>Jul. 2017</i> |
| • Global Rank 16 , High School CTF 5 | <i>May. 2018</i> |
| • Dean's List , University of Washington | <i>Dec. 2018</i> |
| • Dean's List , University of Washington | <i>Mar. 2019</i> |