

# MIKE HE

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(206) · 887 · 8588

## EDUCATION

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### University of Washington, Seattle

Sept. 2018 - Est. Sept. 2022

*B.S. in Computer Science*

Overall GPA: 3.95

- Interests of Studies: Programming Languages - Type Theory & Formal Verification. Japanese Studies.

## EXPERIENCE

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### 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. 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 Participant*

*Seattle, WA*

- Developed online panel for visualizing data collected from solar panels deployed around UW campus; Deployed the system to the lab, tested for its stability and optimized the web-based panel.

## PROJECTS

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### BNDS Online Judge

*On Github*

An online judge designed for Beijing National Day School, developed based on Universal Online Judge (UOJ). It is optimized for CS course instructors to assign, review and grade homework for students. Implementations are contributed to UOJ open source community. Currently, it is being used as the official testing website at BNDS.

### Realm.js

A functional reactive programming library designed for frontend developers. Written in TypeScript, the library combines the design of Elm and Rxjs. It combines a functional / imperative / reactive hybrid paradigm of frontend programming. It is the final project of CSE 402 (Domain-Specific Language).

### Lotus Leaf

*On Github*

A frontend of a data panel for visualizing and monitoring data sets collected from solar metrics deployed around University of Washington campus; The system is deployed at the Clear Energy Institute at University Village. This is a research project of ECE Department instructed by Professor Kirschen.

## SPEC

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Languages	Agda, Haskell, TypeScript, Python3, Java
Skills	Dependent-Type Theory, Functional Programming, Algorithm Design
What's more	Violin (Performing Level certified by Central Conservatory Of Music)

## HONORS

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- **Outstanding Developer Team**, Xiaomi Inc. *Mar. 2015*
- **Second Prize**, National Olympiad in Informatics (Beijing Regional) *Dec. 2016*
- **Global Rank 33 (out of 400+)**, High School CTF 4 *May. 2017*
- **First Prize**, Software Engineering Contest for High School Students (Beijing) *Jul. 2017*
- **Second Prize**, National Software Development Contest for High School Students *Jul. 2017*
- **Global Rank 16 (out of 300+)**, High School CTF 5 *May. 2018*
- **Annual Dean's List**, University of Washington *2018 - 2019*
- **JASSO Scholarship**, Waseda University *Jun. 2019*