

# MIKE HE

<https://ad1024.space>

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## EDUCATION

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### University of Washington, Seattle

Sept. 2018—Est. Jun. 2022

*B.S. in Computer Science*

- Cumulative GPA: 3.95
- Interests of Studies: Programming Languages - Type Theory & Formal Verification. Japanese Studies.

#### Selected Courses:

- **CSE 351** Hardware / Software Interface
- **CSE 402** Introduction to Domain-Specific Language
- **CSE 507** Computer-Aided Reasoning for Software

## SPEC

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<b>Languages</b>	Python3, Java, Agda, Haskell, HTML, L <sup>A</sup> T <sub>E</sub> X
<b>Skills</b>	Programming Languages, Functional Programming, Algorithm Design
<b>What's more?</b>	Violin (Performing Level certified by Central Conservatory Of Music)

## EXPERIENCE

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### Relay

Oct. 2019—Now

*Research Assistant*

*Seattle, WA*

- A High-Level Intermediate Representation for tvm stack.
- Being responsible for the evaluation infrastructure and performing efficiency analysis for the compiler.

### UW Solar Data Research

Jan. 2019—Sept. 2019

*Undergraduate Researcher*

*Seattle, WA*

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

## 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 adopts a functional imperative and reactive hybrid paradigm of frontend programming. It is the final project of CSE 402 (Domain-Specific Language).

### Blog

*On Github*

A general-purpose blog system built by using Koa2 that supports both RTF and Markdown; renders mathematical expressions using KaTeX; supports code highlight with highlight.js; has multi-user management functionality; provides customization supports for about page.

## HONORS

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- **JASSO Scholarship**, Waseda University *Jun. 2019*
- **Annual Dean's List**, University of Washington *2018—2019*
- **First Prize**, Software Engineering Contest for High School Students (Beijing) *Apr. 2017*
- **Second Prize**, National Olympiad in Informatics (Beijing Regional) *Dec. 2016*