

MIKE HE

<https://ad1024.space>

dh63@cs.washington.edu

(206) · 887 · 8588

EDUCATION

University of Washington, Seattle

Sept. 2018—Est. Jun. 2022

B.S. in Computer Science

- Cumulative GPA: 3.92
- 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

Languages	Python3, Java, Agda, Haskell, HTML, L ^A T _E X
Skills	Programming Languages, Functional Programming, Algorithm Design
What's more?	Violin (Performing Level certified by Central Conservatory Of Music)

EXPERIENCE

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

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).

Sager

On Github

A Demonic Graph Synthesizer (data structure synthesizer) that aims for worst-case performance of graph-related algorithms (e.g. SSSP). It uses ROSETTE as the solver for synthesizing the core structure and calls a scaler for generating larger graphs. It is the final project of CSE 507 (Computer-Aided Reasoning for Software).

HONORS

- **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*