

MIKE HE

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(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 332** Data Structures & Parallelism
- **CSE 402** Introduction to Domain-Specific Language
- **CSE 507** Computer-Aided Reasoning for Software

SKILLS

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

EXPERIENCE

PLSE

Oct. 2019—Now

Research Assistant

Seattle, WA

- Working with tv_m/relay, a High-Level Intermediate Representation for tv_m.
- 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 an 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

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*