

MIKE HE

<https://ad1024.space>

dh63@cs.washington.edu

(206) · 887 · 8588

EDUCATION

University of Washington, Seattle

B.S. in Computer Science

Sept. 2018—Est. Jun. 2022

- Cumulative GPA: 3.87
- Interests of Studies: Programming Languages & Formal Verification

Selected Courses:

- **CSE 332** Data Structures & Parallelism
- **CSE 402** Domain-Specific Languages
- **CSE 490** Programming Languages & Program Verification
- **CSE 507** Computer-Aided Reasoning for Software
- **CSE 505** Principle of Programming Languages

SKILLS

Languages	Python, Java, Haskell, Agda, HTML, \LaTeX
Skills	Certified Programming, Functional Programming, Automated Verification
What's more?	I've been playing the violin for 16 years. I like Symphonies composed by Gustav Mahler.

EXPERIENCE

PLSE

Research Assistant

Oct. 2019—Now

Seattle, WA

- Working with tvn/relay, a High-Level Intermediate Representation for tvn.
- Being responsible for the evaluation infrastructure.
- Working on Dynamic Tensor Rematerialization with lab members.

UWECE

Research Assistant

Jan. 2019—Sept. 2019

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

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).

veripy

On Github

An auto-active verification library for Python3 base on verification condition generation of Hoare Logic.

HONORS

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