MIKE HE

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EDUCATION

University of Washington, Seattle *Sept. 2018—Est. Jun. 2022*
B.S. in Computer Science

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

Selected Courses:

- **CSE 332** Data Structures & Parallelism
- **CSE 402** Domain-Specific Langauges
- **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 Oct. 2019—Now
Research Assistant *Seattle, WA*

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

UWECE Jan. 2019—Sept. 2019
Research Assistant *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 Hackathon for High School Students (Beijing) *Apr. 2017*
- **Second Prize**, National Olympiad in Informatics (Beijing Regional) *Dec. 2016*