

## Education

### University of Washington

B.S. Computer Science

GPA: 3.86

Sept. 2015 - March. 2018

### University of Washington

M.S. Computer Science & Engineering

GPA: 3.90

March. 2018 - June. 2019 (exp.)

## Skills

**Languages:** Java, Scala, Typescript/Javascript, Python, HTML, CSS, C, C++, SQL, ASP

**Libraries / Frameworks:** React, D3

**Creative Authoring:** Sketch, Illustrator

## Experience

### Rubrik, Inc. | Software Engineering Intern (Archival)

Summer 2018

Designed and implemented tiered lifecycle management for data backed up to the cloud. Additionally, extended customer UI to enable access to this feature.

**Technologies:** Scala, Typescript, Angular

### Google | UX Engineering Intern (Search)

Summer 2017

Full-stack design (UX and software) and development of a web application (chrome extension), including accompanying server and API, hosted on Google infrastructure.

Java, Javascript, HTML, CSS.

### Paul G. Allen School | Research Assistant (Interactive Data Lab)

2017 - 2018

Visualization Recommendation Systems (Voyager / CompassQL, Draco) and visualization for Natural Language Processing

Typescript / Javascript, Python, React, Vega-Lite, HTML, CSS.

### Paul G. Allen School | Teaching Assistant (CSE 142, 143, 311, 512)

2016 - 2018

Held office hours, grade assignments, and led tutorials and discussion for Introduction to Programming (142 + 143), Discrete Math (311), and Data Visualization (512).

Java, Javascript, D3, HTML, CSS.

### Paul G. Allen School | Software Developer (TA Tools)

2016 - 2018

Full-stack development of the Intro TA Tools website, used to facilitate operation of CSE 142 and 143 courses.

Java, Coffeescript / Javascript, SQL, HTML, CSS.

## Selected Publications

### Formalizing Visualization Design Knowledge as Constraints: Actionable and Extensible Models in Draco

Full Paper

🏆 **Best Paper Award.** To appear at IEEE InfoVis 2018 (25.7% acceptance rate)

Dominik Moritz, Chenglong Wang, Greg L. Nelson, **Halden Lin**, Adam M. Smith, Bill Howe, and Jeffrey Heer

Paper: [idl.cs.washington.edu/papers/draco/](http://idl.cs.washington.edu/papers/draco/) Website: [uwdata.github.io/draco](http://uwdata.github.io/draco)

Python, Answer Set Programming (ASP), Vega-Lite, React, Typescript, HTML, CSS, Sketch

### Visualizing Attention in Sequence-to-Sequence Summarization Models

Poster

To appear at IEEE VAST 2018

**Halden Lin**, Tongshuang Wu, Kanit Wongsuphasawat, Yejin Choi, and Jeffrey Heer

Paper: [haldenl.com/papers/2018-vast-attention.pdf](http://haldenl.com/papers/2018-vast-attention.pdf) Visualization Tool: [haldenl.github.io/attention-visualizer](http://haldenl.github.io/attention-visualizer)

Python, React, Typescript, HTML, CSS