

## 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, Vega-Lite.

**Creative Authoring:** Sketch, Illustrator, Photoshop.

## Experience

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

Summer 2018

Design and implement tiered lifecycle management for data backed up to the cloud. Functionality developed for Microsoft Azure, but designed to be extensible to other platforms (e.g., Amazon S3, Google Cloud Platform).

**Technologies:** Scala, Microsoft Azure SDK.

### Google | UX Engineering Intern (Search)

Summer 2017

Full-stack design 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 lead tutorials or discussion for Intro to Programming (undergrad), Foundations in Computing (undergrad), and Data Visualization (grad).

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

Draco: [uwdata.github.io/draco](http://uwdata.github.io/draco)    Draco-Editor: [uwdata.github.io/draco-editor](http://uwdata.github.io/draco-editor)

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

Visualization Tool: [haldenl.github.io/attention-visualizer](http://haldenl.github.io/attention-visualizer)

Python, React, Typescript, HTML, CSS