

Sarah Lim

(425) 647-0522 | sarah@sarahlim.com | sarahlim.com

EDUCATION

Northwestern University, B.A. Computer Science — GPA: 3.92 **Jun 2018 (Expected)**

Upper-level coursework: Design, Technology, and Research (DTR), Software Construction, Human-Computer Interaction, Design and Analysis of Algorithms, Intro to Theory of Computation, Intro to Artificial Intelligence, Machine Learning, Probabilistic Graphical Models, Programming Languages, Intro to Databases

Leadership and service: Weinberg College of Arts and Sciences Student Advisory Board; Weinberg College of Arts and Sciences Curricular Review Committee; Women in Computing; Northwestern Debate Society

WORK EXPERIENCE

Khan Academy, Software Engineering Intern **Summer 2017**

Helping to ship exercise reports and progress overviews for coaches, using React, Redux, GraphQL, and Google App Engine.

Delta Lab, Undergraduate Researcher **Feb 2015 — Present**

Researching and building semantic developer tools for CSS, using Node.js, React, and Chrome Remote Debugging Protocol. Designing and conducting usability and system evaluation studies, and writing manuscripts.

EECS Department, Head Teaching Assistant **Sep 2015 — Present**

Developing curriculum and assignments for 400+ students, mentoring course staff, and lecturing on topics in functional programming and object-oriented data structures and algorithms.

Center for Connected Learning, Software Developer **Jan 2017 — Apr 2017**

Added experimental Web Worker concurrency to the NetLogo Web agent-based modeling and simulation engine. Implemented linear algebra primitives in CoffeeScript, including least-squares regression and the QR algorithm.

LinkedIn, User Interface Engineering Intern **Summer 2016**

Developed Ember.js addon for charting data with native SVG DOM APIs, replacing the Highcharts library in the InMail Reporting product. Assisted the design of recruiter relevance algorithms.

AWARDS & HONORS

- ▶ ACM CHI Student Research Competition, First Place
- ▶ Google Lime Scholarship
- ▶ Microsoft Tuition Scholarship
- ▶ Palantir Women in Technology Scholarship
- ▶ Box Engineering Diversity Scholarship
- ▶ Quip Engineering Diversity Scholarship, Runner-Up
- ▶ Google GHC Travel Grant
- ▶ Lime Connect Fellowship
- ▶ Undergraduate Research Grant

SKILLS

JavaScript/ES6, Python, React, Redux, CSS/Sass, Chrome Debugging Protocol
Familiar: Rust, Racket, C#, C, C++, Node.js

PUBLICATIONS

Sarah Lim. Ply: Visual Regression Pruning for Web Design Source Inspection. In *Proceedings of the CHI 2017 Extended Abstracts on Human Factors in Computing Systems*, May 2017.

PROJECTS

Parcheesi Bot (Rust) — networked automated player for the Parcheesi board game

Ply (JavaScript, Chrome extensions, Socket.io, Node.js, React) — novel CSS inspector tool, with support for heuristically computing source code relevance using image comparison

ember-cli-line-graph (JavaScript, Ember.js, SVG) — time series charting library for Ember.js, using native SVG

Predicting the Popularity of User-Generated Discussion Questions (Python, NLTK) — machine learning classification project, using the Reddit API and the NLTK language library

Scout (JavaScript, Meteor) — real-time application for crowdsourcing competition results