

# Abe Wheeler

Software Engineer

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## Experience

### Amazon

Seattle, WA

*Software Development Engineer I & II – Marketing Automation Platform & Learning Engine (MAPLE)*

October 2018 – Present

- Maintained a machine-learning-backed advertisement optimization engine with 10,000+ TPS at ~200ms p99.9 contributing nearly a billion dollars of annual value to Amazon.
  - Responsible for solo monthly pager duty. Promptly fixed multiple production issues without support.
- Designed and implemented a migration of the service's core data model to improve system flexibility.
  - Migrated 2 databases, 13 code packages, 4 APIs, and 200,000+ S3 objects without issue in production.
- Designed and implemented two new types of ML models to address the service's cold-start problem.
- Implemented a hyperparameter A/B testing system on live production data without disruption.
- Mentored the 2020 intern for the 16-person MAPLE team.
- Led MAPLE in ticket resolutions for 2020. Submitted and reviewed the most code reviews of team SDE 1s in 2019.
- Implemented a design meeting notetaking system to promote SEA – BLR communication.
- Promoted to SDE II in Q3 2020.

### MeridianLink

Costa Mesa, CA

*Software Development Engineer – Loans Prequalification (LPQ)*

January 2018 – October 2018

- Engineered various features and bug fixes for MeridianLink's loan origination web application, LPQ.
- Researched and implemented an OCR solution for auto-populating loan application fields.
- Division owner for caching (ASP.NET, Couchbase, and Redis). Solved longstanding latency issues with CB upgrade.
- Administrator for meridianlink.com promotional website. Point of contact for marketing on website improvements.
- Leveraged React, ASP.NET 4, VB.NET, JS, Bootstrap, MSSQL, jQuery, and more to maintain LPQ.

### Bloomberg L.P.

New York City, NY

*Software Engineering Intern – Equities and Derivatives*

June 2017 – August 2017

- Developed front and back end features for the options backtesting function of the Bloomberg Terminal.
- Integrated JS and C++ run thousands of times daily into a large, safety critical software architecture.
- Facilitated a technical demo between teams sharing redundant features discovered while exploring the company.
- Bloomberg Market Concepts (BMC) certified.

### Valassis Digital

Seattle, WA

*Software Engineering Intern*

June 2016 – August 2016

- Owned, designed, implemented, and documented a mobile SDK providing access to the Valassis Mobile Offers API.
- Acquired professional mobile development skills with Java and Objective-C using Android Studio and Xcode.
- Employed the Scrum methodology with an international team coordinated through Slack and Rally.

### Experian

Costa Mesa, CA

*Software Development Intern – Experian Decision Analytics*

July 2015 – August 2015

- Created Java business logic code and bash shell scripts to assist the Decision Analytics team of Experian.
- Communicated with a project team spread across multiple geographies, leveraging scrum and Git.

## Education

### University of Southern California

Major GPA: 3.75

Cumulative GPA: 3.65

Los Angeles, CA

*B.S. Computer Science - Viterbi School of Engineering*

August 2015 – December 2017

- Dean's List Fall 2015, Fall 2016, Spring 2017, Fall 2017.
- Parent's Club and Alumni Chair at Phi Kappa Psi.
- Joint Education Project volunteer: Computer Science elementary school teacher 2016 through 2017.

### University of Washington

Cumulative GPA: 3.64

Seattle, WA

*Computer Science*

September 2013 – June 2015

- Annual Dean's List 2014-2015 school year.
- UW Club Water Polo Superior Scholar Athlete & "Offense MVP" Award recipient.

## Technical Skills

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### Languages

#### In order of descending proficiency

- Java, Python, JavaScript, C#, HTML & CSS, VB.NET, TS, C++, SQL, C, Objective-C.

### Frameworks

- React, React Native, Spring, Bootstrap, jQuery, ASP.NET, JSP.

### Technologies

- AWS (particularly EC2, DynamoDB, Lambda, API Gateway, SQS & SNS), Node.

### Tools

- Git, SVN, Visual Studio, CLI & Vim, Unity, Windows.

### Concepts

- Full stack, Backend, Databases, Frontend, OOP, System Architecture, Machine Learning, Web Development, Security, Agile & Scrum, REST APIs, Mobile Application Development, SEO.

## Activities

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### Toastmasters

Costa Mesa, CA & Seattle, WA

*Sergeant at Arms, Member*

*January 2018 – Present*

- Write & deliver 6 to 8-minute speeches bimonthly. Elected to Sergeant at Arms in CA 24-member club in June 2018.
- Prepare and open for weekly meetings to develop upon public speaking and improvisation skills.

### Big Brothers & Big Sisters

Anaheim, CA

*Big Brother*

*June 2018 – Present*

- Act as an older brother to an underprivileged boy. Commute to SoCal monthly to continue mentorship.
- Past activities: building a computer with Raspberry Pi, swimming lessons, skateboarding, etc.

## About

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- I am most interested in using software to solve everyday problems for people & businesses; I am most satisfied by my work that directly impacts end customers.
- Hobbies: reading (mostly biographies & classic fiction), fitness, skiing, game development, water polo, and cooking.
- Fun fact: I have climbed to the highest point in all 50 states. Finished the 3-week Denali climb summer 2019.