Abe Wheeler

Software Engineer

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Experience

Amazon — Seattle, WA
Software Development Engineer I – 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.
  - Saved multiple developer months and avoided technical debt on subsequent projects in the following year.
- Designed and implemented two new types of ML models to address the service's cold-start problem.
- Partially designed and implemented a hyperparameter A/B testing system on live production data.
- 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.
- Contributed to Seattle and Bangalore teammate designs. Invented a notetaking system to promote communication.

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
National Merit Scholar, 35 ACT

University of Southern California — Los Angeles, CA
Major GPA: 3.75 — Cumulative GPA: 3.65
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 — Seattle, WA
Cumulative GPA: 3.64
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

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

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

  – I am most interested in using software to solve everyday problems for people & businesses; I am most satisfied by my work that directly delights 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.