Abe Wheeler

Software Engineer

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Experience

ATM.com   Newport Beach, CA
Software Engineer   *March 2021 – Present*
  - TBD...

Amazon   Seattle, WA
Software Development Engineer I & II – Marketing Automation Platform & Learning Engine (MAPLE)   *October 2018 – March 2021*
  - 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.
  - Led the engineering designs for a new ML-backed incentive system.
  - 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

- 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, Ruby, C#, HTML & CSS, VB.NET, TS, C++, SQL, C, Objective-C.

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

Technologies
- AWS, Node, Terraform, Docker.

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

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.

Toastmasters Costa Mesa, CA & Seattle, WA
Sergeant at Arms, Member *January 2018 – March 2021*
- 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.

About

- 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.