Abe Wheeler

Software Engineer & Engineering Manager

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Experience

ATM.com   Newport Beach, CA
Backend Engineering Lead   *March 2021– Present*

- Managed and led the 5-person backend engineering team in a ~40 employee startup.
- Owned team OKRs, planning, backlog, deadlines, operations, processes, communications, development, and recruiting.
- Architected and implemented greenfield adtech systems while maintaining preexisting applications.
  - Proposed, designed, and built the adtech data model, eligibility system, targeting system, data warehouse & ETL event system, affiliate network & MMP integrations, postback service, and an investing application. Lead cross-team implementation efforts across mobile & data teams.
  - Guided teammate architectures for all backend systems. Contributed code and code reviews to projects delegated to teammates.
- Championed the adoption of company-wide processes.
  - Within engineering, introduced a team split, a lightweight 2-week agile process, monitoring & alerting systems, oncall, and a ticket-based support process.
  - Proposed and evangelized engineering-external processes including an advertising partner integration & retention playbook, customer support issue escalation, ad operations, and quarterly planning schedules.
- Recruited and hired high performers at the junior, mid-level, and principal levels. Directed goal-setting and review meetings during 1-on-1s. Obtained promotions and raises for teammates.
- Simultaneously acted as a full member of the product management team. Maintained the engineering backlog, identified quarterly initiatives with the product team, wrote product requirement documents, planned & delegated project work, managed project progress, orchestrated releases, handled internal & external communications, and tracked results.

Amazon   Seattle, WA
Software Development Engineer I & II – Marketing Automation Platform & Learning Engine   *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.
- Advocated for and Implemented a design meeting note taking 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   National Merit Scholar, 35 ACT

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

Languages   In order of descending proficiency
 – Java, Python, JavaScript, Ruby, C#, HTML & CSS, VB.NET, TS, C++, SQL, C, Objective-C.
Frameworks
 – Rails, React, React Native, Spring, Bootstrap, jQuery, ASP.NET, JSP.
Technologies
 – AWS, Node, Terraform, Docker, SingleStore
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 with my identical twin brother.