Bill Liu

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Experience:

Staff Software Engineer - Pathlight - San Francisco, CA - January 2021 - January 2022
- Designed and led implementation of conversational coaching feature, fulfilling contractual obligations and increasing sales leads. Mentored and ramped up a junior engineer on the project.
- Led efforts to increase scaling of the product. Identified and fixed key bottlenecks using PostgreSQL analyze, ran load testing, and scaled the main metrics feature to 10x the users. This effort unblocked the largest sale opportunity of the company at the time.
- Root-caused and fixed issues that caused downtime. At one point, improved uptime from ~90% to ~100%, by identifying and fixing database connection pool configuration.
- Proposed and implemented Python type-checking, and New Relic performance monitoring
- Participated in the sprint process, fixing bugs and implementing features in Django Python, React/Redux, Javascript, PostgreSQL, and AWS.

Senior Software Engineer - Google LLC - Mountain View, CA - August 2016 - January 2021
- Architected and led 3 junior engineers in developing a new entitlement microservice in Java
- Implemented new features using Javascript in the child account sign-up flow. Grew child account signups from less than 200 a day to over 1000 a day.
- Scaled up a new development team by being technical point-of-reference for a project
- Productionize services with monitoring, automated deployments, and participation in 24 hour on-call
- Interviewed 75+ candidates for Google

Web Development Team Lead - Wolfram Alpha LLC - Champaign, IL - May 2015 to July 2016
- Rewrote the client code of www.wolframalpha.com from jQuery/Backbone to Angular.js
- Collaborated with UX and testing teams to deliver UX refreshes on main site
- Maintained REST API with Java, Tomcat, Jersey, and MySQL
- Mentored and helped other members of development team
- Proposed improvements in non-coding processes in Git, bug reporting, code-reviews, interviewing, and Jenkins deployments

Web Developer Intern - Wolfram Research, Inc. - Champaign, IL - Nov. 2013 to May 2015
- Sole technical ownership and maintenance of community.wolfram.com, a Java/Tomcat/Liferay/MySQL application
- Implemented a database query cache to help the application scale to an increasing user base
- Implemented new features such as a Markdown editor and Amazon S3 file uploader
- Collaborated with design, UX, and testing teams

Summer Technology Analyst - JPMorgan Chase - Chicago, IL - Jun. 2013 to Aug. 2013
- Wrote and implemented a unit testing framework with JMockit that allowed for increased unit testing coverage
- Increased unit testing coverage across the entire project from nearly 0% to 40%
- Instructed and helped team members in usage of the framework
- Participated in the Agile development process to meet release schedules and deadlines

Education:
University of Illinois at Champaign-Urbana - B.S. Computer Science - Class of 2015