Alison Li

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TECHNICAL SKILLS

Languages: Java, SQL, JavaScript, Python
Technologies: JUnit, Mockito, React, MySQL/PostgreSQL/IBM Db2, Cypress, scikit-learn/Pandas/matplotlib

EDUCATION

University of British Columbia — August 2022
M.S. in Computer Science (Thesis Area: Software Engineering Productivity) — *Vancouver, Canada*
McGill University — May 2020
B.A. in Software Engineering & History — *Montreal, Canada*

EXPERIENCE

Software Engineer — September 2022 – Present
Veeva Systems — *Vancouver, Canada (Remote)*
- Full-stack application developer of Vault Quality, implementing business logic focused on supporting quality management systems (QMS).
- Co-led the design and implementation of a new data synchronization gateway between Vault Quality and Vault Clinical.
- Contributed to increasing the code resiliency of a connectivity feature between Vault Quality and Vault Regulatory. This connector leverages an internal messaging system, job queues, and data storage frameworks to streamline data transfer and business operations between Vaults.
- Integrated front-end test code coverage reporting and thresholds into the Jenkins CI/CD build pipeline for the Vault RegulatoryOne code base, leading to the establishment of cross-team goals for increasing JavaScript test coverage.

Graduate Research Assistant — January 2022 – Aug. 2022
University of British Columbia — *Vancouver, Canada*
- Developed an IntelliJ IDEA IDE plugin for supporting efficient software history exploration, using regular expression pattern matching on version control history diffs. See "Intelligent History" under "Projects" section.
- Evaluated the plugin in a study of 10 software developers, demonstrating its effectiveness as a prototype for improving efficiency when a software developer must work to quickly understand a code base.

Software Developer, Intern — May 2021 – December 2021
SAP — *Vancouver, Canada*
- Delivered back-end and front-end bug fixes and enhancements for a widely used Java microservice (specializing in data acquisition) in SAP Analytics Cloud.
- Resolved an average of 25% (5 out of 20) of the team's production issue backlog per sprint, including P1 bugs.
- Automated over 100 front-end regression test cases using Cypress and Jenkins, resulting in saving the team 20 hours of manual end-to-end testing effort per sprint.
- Mentored and integrated two junior interns, accelerating their capability to address user-reported defect tickets within three weeks of their onboarding.

Graduate Teaching Assistant — September 2020 – April 2021
University of British Columbia — *Vancouver, Canada*
- Taught weekly tutorials to 30 students on ER models, relational schemas, DDL in SQL, and relational algebra.
- Supported 20 students towards building an application with a front-end, Java or PHP back-end, and Oracle database.

PROJECTS

Intelligent History – IntelliJ IDEA Plugin | *Java* — `github.com/Alison-Li/intelligent-history`
- Automatically identify important commits from those containing trivial changes, e.g. newlines, Javadoc, and annotations by highlightning commits in the version control history log. Provides integration with Jira to seamlessly extract Jira issue IDs from commit messages and preview related Jira issues.

Stardew Valley Fishing Modification | *C#* — `nexusmods.com/stardewvalley/mods/6773`
- A *Stardew Valley* game modification allowing the player to automatically attach any available fishing bait and tackles to their fishing rod with a keyboard shortcut. Has over 1,000 unique downloads.