

ALISON LI

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

M.S. IN COMPUTER SCIENCE

Expected: Sep. 2022

Thesis Area: Software Engineering & Developer Productivity

MCGILL UNIVERSITY

B.A. IN SOFTWARE ENGINEERING & HISTORY

May 2020

CONTACT

☎ (236)-862-3462

✉ me@alisli.com

🔗 alisli.com

🐙 github.com/Alison-Li

🌐 linkedin.com/in/alison-li

COURSEWORK

GRADUATE

Intro. to Formal Verification & Analysis
Program Verifiers & Program Verification
Programming Language Principles
Operating Systems
Human Aspects of Software Engineering

UNDERGRADUATE

Intro. to Computer Systems
Intro. to Software Systems
Algorithms & Data Structures
Software Design
Software Delivery
Database Systems
Applied Machine Learning
Programming Languages & Paradigms
Topics in Mobile App. Development
Discrete Structures
Linear Algebra

SKILLS

PROGRAMMING

Comfortable:

Java • SQL

Familiar:

Python • JavaScript • Shell

TECHNOLOGIES

Git • PostgreSQL/Db2 • JUnit • Cypress
• scikit-learn/Pandas/Matplotlib

EXPERIENCE

UNIVERSITY OF BRITISH COLUMBIA | GRAD. RESEARCH ASSISTANT

Jan. 2022 - Present | Vancouver, Canada

- Developing an IntelliJ IDEA plugin for supporting software history exploration. More detail in "Projects."

SAP | SOFTWARE DEVELOPER INTERN

May 2021 - Dec. 2021 | Vancouver, Canada

- Delivered high priority bug fixes for a widely used Java microservice (data acquisition) in SAP Analytics Cloud and communicated with Fortune 500 businesses as customers.
- Responsible for 12% of team's bug backlog per sprint, including P1 bugs.
- Automated regression tests using Cypress and Jenkins, saving each developer 2-3 hours of manual end-to-end testing effort each sprint.
- Onboarded and mentored 2 junior interns, bringing them up to speed to be able to start handling user-reported bugs within 3 weeks.

UNIVERSITY OF BRITISH COLUMBIA | GRAD. TEACHING ASSISTANT

Sep. 2020 - Apr. 2021 | Vancouver, Canada

- Teaching assistant for *Introduction to Relational Databases* and *Advanced Relational Databases*.
- Taught weekly tutorials on ER models, relational schemas, DDL in SQL, and relational algebra and mentored 5 teams on building a database application.

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UNDERGRADUATE TEACHING ASSISTANT

Jan. 2020 - Apr. 2020 | Montreal, Canada

- Teaching assistant in *Software Design*.
- Prepared programming tasks for implementing design patterns and critical software design and testing principles.

UNDERGRADUATE RESEARCH ASSISTANT

Jun. 2019 - Dec. 2019 | Montreal, Canada

- Developed a Firefox plug-in to support novice programmers while browsing software documentation and completing software development tasks.

PROJECTS

INTELLIGENT HISTORY - INTELLIJ IDEA PLUGIN

github.com/Alison-Li/intelligent-history

Offers commit history highlighting to automatically distinguish potentially important commits from those containing trivial changes, e.g. addition of newlines, JavaDoc changes, and annotations. Provides integration with Jira to automatically extract Jira issue IDs from commit messages and show a preview of the Jira issue referenced by a commit.

STARDEW VALLEY FISHING MODIFICATION

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 600+ unique downloads.

CUSTOM FLAPPY BIRD

github.com/Alison-Li/custom-flappy-bird

A "Flappy Bird"-style game that allows the user to upload their own assets to use as the "bird" and the "pipe" obstacles. Extends Thomas Palef's tutorial on how to create Flappy Bird using HTML, JavaScript, and Phaser.