ALISON LI

⌂ Permanent Address: 4428 Welwyn St, Vancouver, BC, Canada

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA
M.Sc. Computer Science
Exp. May 2022 | Vancouver, Canada

MCGILL UNIVERSITY
B.A. Software Engineering & History
May 2020 | Montreal, Canada
Dr. Feng Qian Undergraduate Award

CONTACT

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 Alison-Li
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COURSEWORK

GRADUATE
Intro. to Formal Verification & Analysis
Program Verifiers & Program Verification
Programming Language Principles
Applications of Linear Algebra

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

SKILLS

PROGRAMMING
Comfortable:
Java • Python • Shell
SQL • LaTeX
Exposed To:
JavaScript • C • MIPS • OCaml • Racket

TECHNOLOGIES
Git • JUnit • Heroku

EXPERIENCE

UNIVERSITY OF BRITISH COLUMBIA | Graduate Teaching Assistant
Sep. 2020 - Present | Vancouver, Canada
- Teaching assistant for *CPSC 304: Introduction to Relational Databases* and *CPSC 404: Advanced Relational Databases*.
- Grade assignments and exams, create quiz questions, and support students via office hours and online forum discussions.

MCGILL UNIVERSITY
Undergraduate Teaching Assistant
Jan. 2020 - Apr. 2020 | Montreal, Canada
- Teaching assistant for *COMP 303: Software Design*.
- Graded assignments and exams, prepared lab assessments consisting of coding tasks, and support students via office hours and online forum discussions.

Undergraduate Research Assistant
Jun. 2019 – Dec. 2019 | Montreal, Canada
- Developed a Firefox browser plug-in with the goal of developing solutions to the "knowledge disorientation" among novice programmers who often learn opportunistically and informally while browsing software documentation and completing software development tasks.
- Worked with HTML/CSS, JavaScript, Firefox WebExtension API, and Fuse.js. Earlier iterations of the plug-in involved experimenting with D3.js.

HINOUNOU | Research Intern
Jun 2018 – Aug 2018 | Shanghai, China
- Research focused on the development of an incentive program that relies on crypto-tokens as an exchangeable currency for rewarding healthy behavioural change among the elderly.

PROJECTS

STARDEW VALLEY FISHING MODIFICATION
`<https://www.nexusmods.com/stardewvalley/mods/6773/>`
A Stardew Valley game modification allowing the player to automatically attach fishing bait and tackles to their fishing rod with a keyboard shortcut, rather than tediously going into their inventory to attach baits and tackles every time their individual usage runs out. Created using C# and SMAPI (Stardew Valley modification loader).

FLAPPY BIRD CLONE
`<github.com/Alison-Li/FlappyBirdClone>`
A "Flappy Bird"-style game that allows the user to upload their own assets to use as the "bird" and the "pipe" obstacles. Extends upon Thomas Palef's tutorial on how to create Flappy Bird using HTML , JavaScript, and Phaser.

MELANOMA PROBABILITY
`<github.com/Alison-Li/MelanomaProbability>`
A website made to act as a tool to predict the probability of similarity between a potentially cancerous skin growth and melanoma. Worked with HTML/CSS, JavaScript, Microsoft's Computer Vision API, and Bootstrap.