


# ALEXANDER MCCOLM


Software Developer

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 Nanaimo, BC

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## SUMMARY

Highly motivated computer science student and aspiring IT professional seeking co-op opportunity. Passionate about technology and love learning through hands-on problem solving. Creative and love to collaborate and help my peers.

## SKILLS

**Languages:** C, C++, Python, BASH, CSS, HTML.

**Technologies:** Linux, Windows, problem solving, software troubleshooting, software development and testing, technical writing.

## PROJECTS

12/2023 - 05/2024 **World Map Geography Game**

[github.com/awmc000/worldpath](https://github.com/awmc000/worldpath)

- Graph-based geography homebrew Nintendo DS game that has players find the shortest possible path between two countries by selecting countries that border one another.
- Test-driven development from scratch in C and making use of the Check library for unit testing.
- Development build released with full game logic and graphics.

5/2024 - Ongoing **Leetcode Badge Generator**

<https://github.com/awmc000/leetcode-badge>

- Web app which pulls data about programming challenges completed by a user and generates a badge for them to share.
- REST API implemented in Python with the FastAPI library.
- Basic frontend written with Javascript, HTML, and CSS.
- Uses an internal SQLite database to cache data and reduce the queries to Leetcode's GraphQL database to once per day per user.

9/2022 - 12/2022 **Retail Management System Group Project**

- Provided direction by scheduling meetings, writing agendas and setting goals for my group.
- Wrote planning documents such as requirements specification, logical and physical design, and test plan.
- Implemented features in C++ making use of STL, CMake, and Git.
- Delivered a satisfactory product and received an A+ in the course.

## EDUCATION

9/2022 - 12/2026 **Bachelor's of Science, Major in Computer Science**

Vancouver Island University

- GPA: 4.1
- Dean's Honour Roll
- Active member of the Computer Science Club and participating in its 100 days of programming challenges over the summer.

## EXPERIENCE

4/2022 - 4/2023 **Director of Federation and Governance Relations**

North Island Student Union (BCFS)

- Developed strategies and policies at regular Board of Directors and Committee of the Whole meetings.
- Represented membership to Federation by delivering quarterly reports to provincial meetings.

10/2019 - 5/2021 **Team Member**

Toys "R" Us Canada

- Assisted customers on the sales floor and at the register with a friendly demeanour.
- Stocked and organized merchandise while maintaining a high standard of cleanliness.

## LANGUAGES

**English** - native, **Mandarin Chinese** - HSK3 / B2+, **French** - A2+