ALEXANDER MCCOLM

Software Developer

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github.com/awmc000

/in/awmc2000

SUMMARY

Highly motivated computer science student and aspiring developer seeking co-op opportunity. Passionate about technology, constantly learning through study and by building software, both for coursework and personal projects. Creative and love to collaborate and help my peers.

SKILLS

Languages: C, C++, Python, BASH, Java.

Technologies: Git, Linux, Make, GDB, Check, unit testing, test driven development, technical writing, Microsoft Office.

PROJECTS

12/2023 - Ongoing World Map Graph and Geography Game github.com/awmc000/worldpath
- Representation of the countries of the world and their land borders as vertices and edges in a graph with pathfinding functionality.
- Foundation of a geography 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.
- Still in early stages but world map graph and pathfinding between countries are operational.

08/2023 - Ongoing Reading Difficulty Calculator github.com/awmc000/readability
- Tool which estimates the level of education required to read English writing without difficulty.
- Based on the Dale-Chall formula developed in the 1940s for public communications and marketing.
- Currently integrating a new Trie module I implemented and tests for.
- First development build released on Github for Linux.

09/2022 - 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 - 9/2026 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, gave a talk on network programming at the Student Talks event in December 2023.

EXPERIENCE

x/2023 – x/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** - HSK2-3 / B2+, **French** - A2+