Tristen Raab

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Summary

- Computer Engineering graduate offering a strong foundation in software engineering and programming principles across multiple platforms.
- Experienced in object-oriented programming; developing, testing and debugging code; designing interfaces; and administering systems and networks.
- Quickly learn and master new technologies; successful working in both team and self-directed settings.

Education

The University of British Columbia – Vancouver, BC

Bachelor of Applied Science in Computer Engineering (BASc), Sept 2018 - Dec 2022 – 84.6% CGPA

- Academic Honors: Graduated With Distinction, Dean's Honor List, Design and Innovation Day Award, UBC's World Challenge Challenge Finalist
- Senior Computer Engineering Capstone Design Project:
  - *Project Scope:* Worked as part of a five-member team to develop an IntelliJ IDE plugin to interface with and run a Java Dynamic Slicing tool developed by UBC's ReSSeS Lab. Analyzed functional requirements, developed code, created a user testing framework for the plugin, summarized results and successfully delivered to the client.
  - *Tools:* IntelliJ IDE, Java, Kotlin

Courses Completed:

- Algorithms & Data Structures
- Object-Oriented Design
- Computer Communications
- Database Management Systems
- Digital Systems Design
- Assembly Language Programming
- Embedded Systems
- Computer Organization and Architecture
- Software Engineering
- Operating Systems
- Principles of Software Construction
- Application Design
- Technical Communications
- Machine Learning

Langara College – Vancouver, BC

Science (General), Jan 2016 - Aug 2018 – 89% CGPA

Work and Research Experience

Linux Magic – Vancouver, BC

Linux Developer Intern, Oct 2022 - Dec 2022

- Performed quality improvements of core system components in a large enterprise mail system using ANSI C, Perl and BASH.
- Implemented and documented new components for the mail subsystems.

The University of British Columbia, – Vancouver, BC

Research Assistant, Systopia Research Lab, Jul 2021 – Apr 2022

- Assembled data comparing different Deep Learning image preprocessing pipelines to determine the bottleneck.
- Analyzed data from performance improvements for JPEG decoding tool running on Data Processing Units (DPU).

Teaching Assistant (CPEN 211, CPEN 331), Sept 2020 – Dec 2020, Sept 2021 – Dec 2021

- Conveyed complex information in a simple manner for students to understand both online and in one-to-one sessions as well as monitored and instructed in class and lab activities.

Skills

- Interpersonal: Bilingual (English, French), Time Management, Team Work, Leadership, Task Prioritization, Communication (Written, Oral), Adaptability, Detail Oriented
- Technical: C, C++, Java, Kotlin, Python, Assembly (x86, ARM), JavaScript, HTML, CSS, SQL, Node.js, React, IntelliJ IDE, Android Studio, Windows, Linux, Unix, Bash, Perl, Git, SVN, MS and Libre Office Suite