Daniel Todd

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Technical Skills

Languages/Development Skills:
- ❖ C/C++, Python, Java, X86-64 Instruction Architecture, JavaScript

Databases:
- ❖ Microsoft SQL Server, Relational Database Design, Querying, Optimizing, and Modification

Operating Systems:
- ❖ Windows, Linux Ubuntu, Android, UNIX

Applications:
- ❖ Git, IntelliJ/Android Studio, Visual Studio Code, MATLAB

Transferrable Skills

Efficiency
- ❖ Recognize patterns in repetitive tasks and optimize work to increase productivity.

Creativity
- ❖ Think outside the box to form unique solutions to complex problems.

Communication
- ❖ Possess powerful communication skills developed as a cook, allowing for clear and thoughtful communication with team members.

Education

Bachelor's Degree in Computing Science | Simon Fraser University, January 2021– May 2025

High School Diploma | Walnut Grove Secondary School, 2016 – 2020

Programming Projects

CMPT 354: SQL database | April 2023
- ❖ Created an SQL database for a fictional airline company in Microsoft SQL Server.
- ❖ Started by creating an entity-relationship diagram, then worked on creating tables, triggers, and stored procedures.
- ❖ All development was done query style.

CMPT 300: S-Talk | February 2023 – March 2023
- ❖ Developed a C program that communicates between two machines over the internet using datagram sockets.
- ❖ Utilized multiprogramming by having many communicating threads, managed critical sections with mutexes.
- ❖ Developed with a partner taking the same course.

CMPT 300: UnixLs | April 2023
- ❖ Created a C program that mimics the ls command in UNIX.
- ❖ Supports the -i, -R, -l flags.
- ❖ Taught me a deeper understanding of the UNIX filesystem, as well as how to navigate it efficiently.

CMPT 300: List | February 2023
❖ Implemented the list ADT using a linked list.
❖ Each operation other than List_search(), List_free() and List_create() runs in linear (O(1)) time.

CMPT 361: Line & Triangle Rasterization | November 2022 – December 2022
❖ Implemented rendering of cubes & spheres via triangle rasterization in JavaScript, Blinn-Phong shading with directed light source, surface texturing, and barycentric interpolation for surface color

CMPT 276: RaccoonGame | January 2022 – April 2022
❖ Worked with two other team members to develop a game using the agile development process.
❖ Refined cooperation and time management skills within large groups, as well as improve problem solving and creativity skills.

CMPT 225: Skip List | December 2021
❖ Implemented the skip list abstract datatype in C++, using git and a linked list-based structure.
❖ Took a day to complete and taught me a lot about segmentation faults, how to trace their origin, and then fix them.

CMPT 125: Virtual Appointment Book | August 2021
❖ The project acts as a virtual appointment book, which acts as a vector of appointments. Each appointment has a name, a date, and a type (birthday, doctor's appointment, etc.)
❖ Additionally, you could sort through the appointment book via either date, name, or type.

Gatorblocks Wear | May 2020
❖ Redesigned the school calendar app from Walnut Grove Secondary to work on android smart watches.
❖ At the time I only knew python and went out of my way to learn Android, and by effect Java.
❖ Shows my great improvement through the last two years, as well as my long-lived passion for programming.

Work Experience

Culinary Team Leader | The Hard Bean Brunch Co. | April 2022 - Present
❖ Using problem solving and communication skills to ensure high kitchen morale and quality meal preparation with minimal customer wait times.

Line Cook | Browns Socialhouse | September 2018 – April 2022
❖ Learned how to be an effective team member, how to work efficiently under considerable pressure for extended periods of time, and basic cooking and food safety techniques.

Server/Bartender | WINGS Langley | March 2021 – August 2021
❖ Development of customer service skills derived from working in the front of a restaurant, rather than the back.

Delivery Driver | Skip the Dishes | January 2021 – October 2021
❖ Worked as a delivery driver for Skip the Dishes on the side while working at Browns Socialhouse, Royal Rose Cleaning, and WINGS Langley

House Cleaner | Royal Rose Cleaning | January 2021 – June 2021
❖ Learned how to weigh time and quality for an agreeable cost, improved my eye for detail.

Meat Clerk | Hakams Independent Grocer | June 2017 – August 2018
❖ Learned the values and expectations of a workplace, as well as crucial time management skills which founded strong efficiency and communication skills.

Merchandiser | Shoppers Drug Mart | May 2016 – December 2016
❖ Learned how to sustainably work for a full shift.