

Daniel Todd

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Summary

- Third-year Computer Science student at Simon Fraser University, deeply passionate about technology with a specific interest in web development and user interface design. Known for my quick grasp of new technologies, I am proficient in HTML, CSS, JavaScript, and modern frameworks like Angular, which I have utilized in several projects to create responsive and user-friendly interfaces. Eager to apply this passion in a front-end development co-op role, I am committed to enhancing user experiences through innovative design and efficient coding practices. Ready to bring my creative and technical skills to a dynamic team focused on cutting-edge web solutions.

Skills

Languages & Frameworks: C, C++, Python, Java, JavaScript, SQL, HTML, CSS, Angular, MATLAB, X86-64

Tools & Technologies: Unix, Git, WebSocket, P-Threads, System Calls

Concepts: Object Oriented Design, Operating System Design, Relational Database Design, Advanced Math Skills, Quantum Computing, Agile, Scrum, Advanced Data Structures, Multi-Threading

Education

COMPUTING SCIENCE | SIMON FRASER UNIVERSITY

- Major: Bachelor of Applied Science – BAsC, Computing Science.

Projects

THE NIGHT CRUSADE TITANS (ANGULAR)

- Uses the Angular framework to create a crime reporting web-app targeted towards the lower mainland.
- Takes advantage of components, services, custom events, API calls, storage servers, routing, shared classes and more.
- This website can be found at <https://dgtutv.github.io/NightCrusadeTitans/>

CALCULATOR (HTML, CSS, JAVASCRIPT)

- Developed an interactive calculator using advanced HTML, CSS, and JavaScript techniques.
- Involves DOM manipulation, text processing, and media queries.
- The website can be found at <https://dgtutv.github.io/The-Odin-Project/Calculator/index.html>

TEXTBOOK INVENTORY (HTML, CSS)

- A dynamic textbook directory website that takes advantage of CSS media queries to seamlessly adapt to different screen sizes.
- The website can be found at <https://dgtutv.github.io/CMPT272/Assignment-1/index.html>

LUNA'S DOG SPA (HTML, CSS)

- A landing page using intermediate HTML & CSS skills, takes heavy advantage of flexbox for page styling.
- This website can be found at <https://dgtutv.github.io/The-Odin-Project/Landing%20Page/index.html>

AIRLINE DATABASE (SQL, FOREIGN KEYS, TRIGGERS, STORED PROCEDURES)

- This is an advanced database created in Microsoft SQL Server that represents a fictional airline database.
- Was created entirely via queries and includes foreign key constraints, triggers, stored procedures, and other constraints.
- Unfortunately, it is kept on SFU servers privately, but I can provide the text-formatted database upon request.

RACCOON GAME (JAVA, MAVEN AUTOMATED TESTING, MULTI-THREADING, OOP, AGILE)

- In this 2D tile-based game, you play as a raccoon attempting to steal garbage without being captured or tricked into a trap. Collect enough garbage within enough time and the exit will open, allowing for your ultimate escape.
 - Features low-latency due to advanced multi-threading and efficiently designed data structures.
 - Features advanced enemy pathfinding borrowing algorithms and techniques from graph theory.
 - Made in collaboration with rwa116.
- Can be ran with a .jar file at <https://github.com/dgtutv/RaccoonGame>

S-TALK (C, UNIX, UDP, IPC, DATAGRAM SOCKETS, P-THREADS)

- This C program is a chat-like facility that enables cross-internet communication (requires port forwarding).
- Features UNIX UDP IPC with datagram sockets, multiprogramming with p-threads, and simple terminal usability.
- Made in collaboration with Luukas Suomi.
- Can be found at <https://github.com/dgtutv/CMPT-300/tree/main/Assignment%202>

More projects are available on my LinkedIn page.

Additional Experience

COOK | TRADING POST BREWING | DECEMBER 2023 - PRESENT

- Transferable skills: Independence, Customer service, Perfectionism, Ability to work under pressure.

CULINARY TEAM LEADER | THE HARD BEAN BRUNCH CO. | APRIL 2022 – AUGUST 2023

- Transferable skills: Leadership, People Management, Ability to work under pressure, Quality control.