

# 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 – BSc, 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/>

### TIC TAC TOE (HTML, CSS, JAVASCRIPT, OOP)

- A neon themed Tic Tac Toe game that is responsive on many display sizes.
- Takes full advantage of object orientated design with JavaScript's factory functions.
- Features advanced JavaScript, comprehensive CSS and basic HTML.
- The website can be found at <https://dgtutv.github.io/The-Odin-Project/TicTacToe/index.html>

### **LIBRARY (HTML, CSS, JAVASCRIPT)**

- A digital library made with advanced CSS, HTML and JavaScript skills.
- Includes functional searching, adding, deleting, and editing of books.
- The website can be found at <https://dgtutv.github.io/The-Odin-Project/Library/index.html>

### **ADMIN DASHBOARD (HTML, CSS)**

- An eye-catching admin dashboard taking advantage of HTML and expert-level CSS.
- Takes full advantage of CSS grid and CSS flexbox together to create a seamless, interactive layout.
- The website can be found at <https://dgtutv.github.io/The-Odin-Project/Admin%20Dashboard/index.html>

### **SIGN UP FORM (HTML, CSS, JAVASCRIPT)**

- A stylish sign-up form using advanced HTML & CSS, with a little bit of JavaScript.
- Takes advantage of responsive and interactive design.
- The website can be found at <https://dgtutv.github.io/The-Odin-Project/Sign%20Up%20Form/index.html>

### **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.

### **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.*