

ANDY TRAN

SOFTWARE ENGINEER

andy.tran1@ucalgary.ca | (403) 826-6386 | Calgary, Alberta | andytrann.ca

EDUCATION

Schulich School of Engineering, University of Calgary

Expected April 2022

BS, Major in Software Engineering

Calgary, AB

Relevant Courses: Data Structures and Algorithms; Testing; Databases; Computer Networks;
Operating Systems; Software Architecture;

TECHNICAL SKILLS

Programming Languages: Java (Advanced), C++ (Advanced), C (Basics).

Web Development (Basics): HTML, CSS, JavaScript, Node.js, PHP, React.

OSes: Linux, MacOS, Windows.

SOFT SKILLS

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- ▶ Strong ability to communicate complex ideas in easily understandable ways.
 - ▶ Adaptable and willing to learn and grow with a positive mindset.
 - ▶ Determined to solve problems and overcome challenges.
 - ▶ Organized and able to manage time well.

SOFTWARE PROJECTS

Animal Shelter Website

Sep 2019 - Dec 2019

- ▶ Group project for a database course written in **HTML, CSS, JavaScript, PHP, and SQL**.
- ▶ Lead the team and helped group members get development environments set up and kept everyone up to pace throughout the project.
- ▶ Full-stack development for a website which manages volunteers for an animal shelter.
- ▶ Protection against SQL injections to prevent sensitive information from being compromised.
- ▶ Developed the back-end and constructed all queries to access and modify data using PHP/SQL.

JRPG-Style Game

Nov 2019 - Nov 2019

- ▶ Solo passion project done over reading week in **Java**.
- ▶ Implementation of a simple game loop to update and render the game.
- ▶ Uses States to transition between different game states, menus, and combat.
- ▶ Implementation of collision and interaction with the world using collision bounds.
- ▶ Gained insight on project development on a larger project from start to end.

Tool Shop Simulator

Mar 2019 - Apr 2019

- ▶ Solo project for course done over several iterations and milestones in **Java**.
- ▶ Multithreaded, socket-based, client-server program using buffered IO streams.
- ▶ Use of a MySQL database using JDBC for queries.
- ▶ Allowed users to create accounts, purchase items, and browse items from the shop's inventory.