ANDY TRAN

SOFTWARE ENGINEER

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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, Express, PHP.
Environments: Linux, MacOS, Windows.

SOFT SKILLS

- 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

JRPG-Style Game   **Nov 2019 - Nov 2019**
- Solo passion project done over reading week in Java.
- Implementation of game loop to update data and render images and animations.
- Use of sprite sheets and tile maps to generate the world and interactive tiles.
- 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 slightly larger project from start to end

Shop Simulator Application   **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.
- Connection to a simple MySQL database using JDBC for queries.
- Allowed users to create accounts that are stored in the database and purchase and browse items from the shop's inventory.
- Shop database updated when a user makes a purchase, or refreshes inventory.

Animal Shelter Website   **Sep 2019 - Dec 2019**
- Group project for course written in JavaScript, PHP, HTML, CSS, and SQL.
- Project for database course to construct queries and connect back end to front end.
- Protection against SQL injections to prevent information being compromised.
- Developed the back end and constructed all queries to access and modify data.
- Worked cooperatively and attended all meetings prepared with required work to effectively achieve deadlines set by group.