

Victor Han

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Skills

- Programming Languages: C++, Java, C#, Python, Javascript, HTML, CSS, Node.js
- Frameworks and Libraries: MySQL, React, Emscripten and WebAssembly, OpenCV

Projects

- Ultimate Tic Tac Toe AI (04/2022 - 05/2023)
 - Complex game logic and search algorithm written in C++
 - Optimized using bitboards and bitshift operations
 - AI compiled to WebAssembly using Emscripten
 - Front End Web Application written in JavaScript
- Fitness Tracker : (09/2022 - 12/2022)
 - Web Application written in Java for users to keep track of their fitness progress
 - Database is managed using MySQL
 - Users have the ability to edit any meal or workout
 - Users can create their own custom foods or exercises to use in their meals or workouts
 - Users can sign up for coaching, coaches can view user information
- Image Compressor: (05/2023 - Present)
 - C++ program designed to compress images using machine learning and OpenCV
 - Dynamically determines model architecture based on image dimensions
 - Model trained using stochastic gradient descent
 - Optimized training procedure using concurrency principles

Education

University of Calgary Bachelors of Science : Computer Science (09/2020 - Present)

Applicable courses:

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| - Introduction to Software Engineering | - Database Management Systems |
| - Design and Analysis of Algorithms | - Computer Networks |
| - Principles of Operating Systems | - Deep Learning for Vision |
| - Artificial Intelligence | - Computing Machinery II |

Work Experience

- **Meat Hygiene Inspector** Canadian Food Inspection Agency (05/2022 - 03/2023)
Reference : Betty Moch: betty.moch@inspection.gc.ca
 - Verify cow slaughter plant is following federal government food safety standards
 - Ensure every part of each carcass is properly inspected
 - Perform incision, visual, and palpation inspection on beef heads and organs
 - Rail out cow carcasses and offal parts with serious pathologies for veterinary inspection
- **Front End Cashier** No Frills (08/2020 - 08/2021)
Reference: Charmaine Butler: 902-301-4760
 - Assisted customers checkout
 - Provided quality customer service
 - Stocked aisles during downtime