

Victor Han

 Vic-Han |  Victor Han |  victor.han72@gmail.com |  4034093451 |  <https://vic-han.github.io>

Education and Certificates

University of Calgary Bachelors of Science in Computer Science	Expected - May 2024
Coursera & IBM IBM Full Stack Software Developer Certificate	Feb 2024

Skills

Programming Languages: C/C++, JavaScript, HTML, CSS, Python, Go, Java, C#

Frameworks and Libraries: React.js, Vue.js, Bootstrap, Tailwind CSS, MySQL, Express.js, MongoDB, PostgreSQL, CassandraDB, Express.js, Django, Flask

Other Technologies: Git/Github, Docker, Bash, WebAssembly

Other Skills: Leadership, Work Ethic, Communication, Adaptability, Problem Solving

Projects

SpaceBook: Gin/Go, React.js, PostgreSQL, CassandraDB

- Led a team of 5 to create a space-themed Facebook mockup
- Architected all server side endpoints and logic and implemented majority of RESTful APIs using Go, CassandraDB, and PostgreSQL
- Implemented screen toggling, client side rendering, and API calls using React.js

My UCalgary 2.0: Vue.js, Tailwind CSS (In progress)

- Leading a team of 7 to improve the user experience of the Univeristy of Calgary student portal
- Managing the front-end team and coordinating with back-end team
- Integrated all components, working on user interaction using Vue.js and Tailwind CSS

Recipe-Selector: React.js, Express.js, MongoDB (In progress)

- Solo capstone project with several working features and several in progress
- Iterating on user experience, medium fidelity prototypes, and current interface using React.js
- Designed and implemented numerous RESTful API routes using Express.js and MongoDB, many more in progress

Twitter Bot Detection: Pyspark/Python, Apache Spark

- Collaborated in a team of 4 to process Kaggle dataset for detecting Twitter automation
- Implemented and optimized K-means clustering with ~90% accuracy
- Applied normalization techniques with non linear functions leading to 3-10 times better distribution

Self Checkout Station: Jswing/Java

- Directed a team of 30 to develop a native app simulating a self-checkout station
- Designed and implemented front-end data flow to integrate many standalone components
- Bridged all front-end and back-end logic using observer design pattern

Texas Holdem Pass and Play: JavaScript

- Independent project focused on developing a Texas Hold'em application
- Used Javascript to create all of the nuanced game logic
- Used CSS and JavaScript to animate some interactions

Fitness Tracker: Vaadin/Java, MySQL

- Worked in a team of 3 to create a fully customizable fitness tracker web app
- Implemented roughly 70% of SQL queries, including all multi query edge cases
- Created roughly 35% of the UI components and their logic using Java

Ultimate Tic Tac Toe Engine: JavaScript, C++, WebAssembly

- Individual project aimed at creating a powerful zero sum game AI
- Used C++ to implement Monte Carlo Tree search capable of defeating most humans, compiled to WebAssembly
- Created a web app interface with JavaScript and Web Workers to run WebAssembly module

Dealship Review: Django, Bootstrap, Docker, Flask, Express.js

- Created microservices using Flask, Express.js, and an IBM cloudant database
- Created dynamic pages using Django and Bootstrap
- Containerized each service using Docker

Work Experience

Canadian Food Inspection Agency **Meat Hygiene Inspector** May 2022 - Aug 2023

- Marked cow carcasses and offal parts with defects based on severity
- Ensured meat slaughter plant upheld government standards
- Worked in a team of 10 to make numerous quick and rational group decisions

No Frills **Front End Cashier** Aug 2020 - Aug 2021

- Assisted customers at checkout and provided quality customer service
- Coordinated with other cashiers to handle high traffic effectively

Other Hobbies and Interests

- Ultra Mountain/Trail Running
- Long Distance Road Cycling
- Chess
- Cooking
- Karaoke