



# Joao Ishida Correa

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## Technical Skills

**Languages:** C, C++, HTML, Java, Assembly x86, Matlab

**OS:** Linux and Windows

**Software:** Github, Visual Studio, VS code, Linux Ubuntu, Eclipse

**Skills:** Debugging, Algorithm and Data Structure

## Transferable Skills

- Committed to delivering high-quality work through meticulous testing and debugging of code to ensure reliability and eliminate bugs
- Dedicated to lifelong learning, continuously acquiring new skills and knowledge to adapt to changing challenges and foster personal and professional growth.
- Excellent communication skills, with a high proficiency in English, Portuguese, and Spanish

## Technical Projects

### Fifteen Puzzle Game and Solver

Jan - Apr 2023

#### CMPT 225 - Data Structures and Programming, SFU

- Developed a fifteen puzzle game using Java language to be played using the terminal
- Applied graph principles to develop the game solver so it could resolve the game under a second
- Utilized different methods of solver using different algorithms (A\*, IDA) improving the solution depending on the board size

### Assembly Functions

Jan - Apr 2023

#### CMPT 295 – Introduction to Computer Systems, SFU

- Implemented multiple assembly functions, such as a small calculator, using x86 assembly language
- Applied low-level programming to manipulate the computer's hardware directly
- Operated logic and mathematical operations to perform complex calculations using assembly

### BST and AVL Tree

Jan - Feb 2023

#### CMPT 225 - Data Structures and Programming, SFU

- Implemented binary search tree and AVL tree algorithms using C++ and Java language
- Utilized recursion and data structures to optimize the search and insertion algorithms

### Conversion of Decimal, Binary, and Hex

May - Jun 2021

#### CMPT 125 - Intro to Computer Science and Programming II, FIC

- Developed a program to convert decimal, binary, and hex numbers using C++ language
- Demonstrated understanding of number systems and their conversions + good code implementation
- Utilized data structures and algorithms to perform the conversions accurately and quickly

## Personal Projects

### Personal Portfolio

May 2023

- Developed a portfolio website using HTML, CSS and JS to showcase more about me and my expertise
- Improved the codes by learning more of the languages to have a better looking and more professional personal portfolio

### Simple Chess Game

Jan - Mar 2023

- Developed a simple two-player chess game using Java language
- Applied algorithmic thinking to develop the game logic and mechanics in the terminal
- Implemented a simple UI for easier gameplay and readability



## Technical Extra-Curricular

### Softblue Programming Logic Course

Apr 2021

- Improved coding logic through programming exercises and article reading

### Udemy C++ Course

Mar - Apr 2021

- Strengthened my language proficiency and programming skills through programming exercises and staying updated with relevant articles and videos

### Harvard CS50's Course

Jul - Aug 2020

- Harvard's Introduction to Computer Science course to tackle real-world programming challenges and develop practical solutions
- Utilized the insights gained from video introductions to programming languages like C, Python, and SQL to expand my understanding of different programming paradigms and their applications

### Digital Career Skills

Sep 2019 - Feb 2020

- Engaged in hands-on coding exercises to practice and reinforce the concepts learned in the Introduction to Python language course

### English Course

Sep 2019 - Feb 2020

- Wrote essays and read articles, in order to advance and improve academic writing and critical thinking

## Other Work Experience

### Barista

Aug - Dec 2021

Starbucks, Burnaby, BC

- Greeted customers and took their orders accurately and efficiently for a pleasant experience
- Collaborated with other baristas and team members to maintain a smooth and efficient operation

## Volunteer Experience

### Community Volunteer, North Vancouver, BC

Apr 2019 - Jun 2020

- Utilized strong organizational skills to coordinate and enhance events in both North Vancouver and the City of Vancouver
- Events included street events for the community, Carnaval del Sol organization, a wide range of nonprofit organizations, and community locally

### Community Volunteer-"Rebeldes de Atitude", Brazil

Jan 2015 - Dec 2017

- Helped communities in need as an English teacher and distributed meals and non-perishable food

## Certifications

- American Mathematics Contest 10/12 Jan 2020
- Cambly Certificate of Accomplishment Apr 2019
- OBMEP- Brazilian Math Olympiad Oct 2018

## Education

Simon Fraser University, Burnaby, BC

Jan 2022 - Present

- Bachelor of Applied Science in Computer Science

Fraser International College, Burnaby, BC

Sep 2020 - Dec 2021

- UTPII Applied Science in Computer Science