

# Garrick L. Henne

Vancouver, British Columbia

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## Education

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### University of British Columbia

Vancouver, British Columbia

BA IN COMPUTER SCIENCE

Sept. 2018 - PRESENT

- Expected Graduation: April 2022
- Current completed coursework: Software Construction, Algorithms/Data Structures, Software architecture, operating systems, and I/O architectures Structures

## Projects

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### SmartMute

JS, HTML/CSS - PERSONAL PROJECT

- Chrome based extension that mutes inactive tabs when current tab plays audio. Unmutes tabs when audio has ended.
- Background script created using Google Chrome's Tab API

### Todo List Application

JAVA

- Object Oriented implementation of a Todo List with features such as: relevant tags, due date, state of task
- Created JSON parser to enable persistence of task items
- Contains comprehensive unit tests of all features with JUnit

### Virtual Assembly Machine

JAVA

- Virtual Assembly application with registers, virtual memory, and CPU.
- Compiles assembly (.s) files using SM213 Architecture Instruction Set
- Instruction set logic is implemented in Java

### PNG Grid Reorganizer

C++

- Organizes groups of pixels in a PNG file and creates a double linked list of nodes. It then reorganizes the nodes to create a new picture with nodes reorganized.
- Features ability to change pixel data (saturation, hue, alpha) of a given group of nodes in a PNG

## Volunteering

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### UCalgary Cares Global Citizenship

Toronto, Ontario

WORKED WITH VARIOUS NON-PROFIT ORGANIZATIONS THAT DEMONSTRATE WHAT IT MEANS

TO BE A GLOBAL CITIZEN

2017

- MealShare, FoodShare: Packed and distributed essential foods to local neighborhoods
- BikePirates: Restoring bikes and distributing them to those in need
- The 519: Helped to plan and chaperone a social night dedicated to refugees that identify as LGBTQ+

## Skills

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**Programming** Java, C/C++, HTML/CSS, JS, MATLAB, Python, Swift, LaTeX

**Languages** English, German