

Address:
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Mackenzie Cooper
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Education

Bachelor of Computer Science

University of Victoria

September 2017 - Present

Projects

Demos, code samples, and additional project information can be found at <http://www.github.com/MackCooper>

Embedded Architecture: Implemented functions for LEDs and LCDs with an Atmega2560 board (AVR Assembly)

- Programmed memory management, interrupt processing, and elementary operating systems on to a FPGA board (Field-Programmable Gate Array), which allows for the creation of complex functions using simple logic gates.
- Developed proficient low level systems programming skills using AVR Assembly.

Hospital Admission Information System: A program for assessing triage in a Hospital Emergency Room (Java)

- Developed hospital software to do real-time triage of patients based on the severity of their injuries.
- Created a design to maximize a nurses effectiveness by performing engineering and design trade-offs as well as a time-weighted cost/benefit analysis.

Simple-Debt: A web application for debt tracking between friends. (Python,HTML, JavaScript)

- Developed an app capable of balancing budgets and loans between friends over a 24 hour hackathon.

BattleSnake: Built an artificial Intelligence which plays the classic game Snake. (Python)

- Created a web server which hosts an AI for the classic game Snake. The server receives, delegates and prioritizes requests while maintaining memory state.
- Developed the AI using Python logic models, capable of outplaying up to 5 other snakes given the correct calculations and conditions.

Experience

Retail Sales Associate

House of Knives

January 2019-April 2019

- Worked as a sales associate at House of Knives in Victoria during my Spring semester of second year university.
- Gained greater experience with customer service as well as time management skills due to having to work while attending University.

Landscaper

Insignia Landscaping

Summer 2018

- Worked as a landscaper during the summer following my first year of university.
- Gained unique opportunities and experience not possible at a larger employer.
- Responsibilities on site included operating a skid-steer, implementing irrigation as well as managing problems that arise that complicate on-going projects.

Tree Planter

Green Thumb Garden Nursery

Summer 2017

- Worked as a standard labourer full time at Green Thumb Garden Centre over the course of the summer following my senior year of high school. Tasks performed at the job included repotting of plants, plant maintenance, landscaping and other general horticulture.

Retail Sales Associate

Gap

2015-2017

- Worked as a Sales Associate at GAP inc. for over a year, I gained a greater understanding of problem solving skills, in addition to enhancing my experience with customer service. Working in a dynamic team, we aimed to meet targets every day which pushed us to work our hardest.

Skills

Programming Languages: Java, AVR Assembly, JavaScript, Python, C++
Misc: Git, HTML, CSS, MySQL, PostgreSQL, Bootstrap, Latex

Spoken Languages: English, French.