

Axel Jacobsen

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EXPERIENCE

CONTROL | DATA SCIENCE CO-OP

JANUARY 2018 – APRIL 2018

- Optimized SQL queries to increase execution speed by 283%
- Fixed bugs and re-factored old code in Javascript for the website's backend

THE UBYSSEY | JUNIOR SOFTWARE DEVELOPER

MAY 2017 – AUGUST 2017

- Worked on Dispatch (Django / React backend platform of ubyssey.ca)
- Created components that allow content to be changed quickly and with ease

TECHNICAL EXPERIENCE

PAYLOAD TEAM | UBC ORBIT

SEPTEMBER 2017 – DECEMBER 2017

- Worked with payload team of UBC Orbit, the UBC satellite team to compete in the Canadian Satellite Design Challenge
- Wrote TensorFlow model to test the heat characteristics of our GPU

MAZE SOLVE | PERSONAL PROJECT - SEE GITHUB PROFILE

JULY 2017 – AUGUST 2017

- Wrote a Python program to solve mazes with sizes above 1,000,000 pixels
- Used Dijkstra's Algorithm with a binary heap as the priority queue

VOLUNTEER EXPERIENCE

WEB DEVELOPER | THE UBYSSEY

JANUARY 2017 – PRESENT

- Performed data formatting and analysis of public survey data
- Coordinated volunteers - solved basic bug fixes and issues

SQUADRON COMMANDER | 103 THUNDERBIRD SQUADRON

APRIL 2015 – JULY 2016

- Led the Command Team, a group responsible for 20 senior and 60 junior cadets in the Squadron
- Mentored senior cadets in leadership and organizational skills

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

EXPECTED MAY 2021

Bachelor of Applied Science, Engineering Physics
Dean's Honour List

ABOUT ME

PROGRAMMING LANGUAGES

Over 5000 lines:
Python • Java • JavaScript
Over 1000 lines:
HTML • CSS/SCSS
Familiar:
MySQL

ACTIVITIES AND INTERESTS

I am an enthusiastic engineering student, with passion in mathematics, programming, and physics. I spend my free time working on my personal projects, climbing, biking, or skiing.