

Axel Jacobsen

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

Bachelor of Applied Science, Engineering Physics | Minor in Mathematics
Dean's Honour List

EXPECTED MAY 2021

EXPERIENCE

CONTROL | DATA SCIENCE CO-OP

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

JANUARY 2018 – APRIL 2018

THE UBYSSEY | JUNIOR SOFTWARE DEVELOPER

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

MAY 2017 – AUGUST 2017

TECHNICAL PROJECTS

PAYLOAD TEAM | UBC ORBIT

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

SEPTEMBER 2017 – DECEMBER 2017

MAZE SOLVE | PERSONAL PROJECT - SEE GITHUB PROFILE

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

JULY 2017 – AUGUST 2017

VOLUNTEER EXPERIENCE

WEB DEVELOPER | THE UBYSSEY

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

JANUARY 2017 – PRESENT

SQUADRON COMMANDER | 103 THUNDERBIRD SQUADRON

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

APRIL 2015 – JULY 2016

ABOUT ME

PROGRAMMING LANGUAGES

Over 10 000 lines:

Python

Over 5000 lines:

Java • JavaScript

Over 1000 lines:

HTML • CSS/SCSS

Familiar:

MySQL

SUMMARY

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.