Axel Jacobsen

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA   Expected May 2021
Bachelor of Applied Science, Engineering Physics | Minor in Mathematics
Dean's Honour List

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

ABOUT ME

PROGRAMMING LANGUAGES

Over 10 000 lines:
Python
Over 5000 lines:
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.