BEN MAZEROLLE

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ABOUT ME

Growing up in Chilliwack, BC, I spent most of my childhood skiing, mountain biking and hiking in the mountains surrounding my home. Now, in my spare time, I'm a fan of powerlifting, cooking, and the occasional game of pickup hockey.

EDUCATION

Bachelor of Software Engineering
University of Victoria

📅 September 2016 - April 2021   📍 Victoria, BC

- **SEng 321**: Requirements Engineering
- **SEng 310**: Human Computer Interaction
- **SEng 275**: Software Testing

COMPETENCIES

Programming: C, Java, Python, C++, Ruby

Web Development: Bootstrap, Vue.js, Rails

Test Development and Managment:
Unit and Stress test procedure creation and execution for mobile apps and web apps

Automated Testing and Trawling:
Selenium, BeautifulSoup, Robobrowser, Insomnia

Design: Adobe Photoshop, Illustrator, and XD, inVision, Balsamiq, Solidworks

Engineering Tools: Microsoft Office Suite, Google Suite, Github, Gitlab, Asana, Testrail, Syspro, and Google collaboration applications

Operating Systems: Development using FreeRTOS

Hardware: TI Hercules Safety MCUs, RasPi, Atmel ATMEGA2560

AWARDS

T.S. McPherson Entrance Scholarship
📅 May 2016

Winning the UVic Engineering Solar Energy Infrastructure design competition
📅 December 2016

2nd Place - Canadian Satellite Design Challenge (UVic Satellite Design Software Lead)
📅 July 2018

EXPERIENCE

ADCS Software Developer Co-op
UVic Center for Aerospace Research

📅 September 2018 - December 2018   📍 Victoria, BC

- Developed mathematical libraries, orbital propagator, and control system for ORCASat Cube Satellite
- Developed an operating system using FreeRTOS to implement the developed libraries and control system
- Ran speed benchmark tests to maximize code efficiency
- All software developed for space-constained (1.25MB) hardware

QA Analyst Co-op
Reliable Controls Corporation

📅 January 2018 - April 2018   📍 Victoria, BC

- Wrote and executed unit tests for the myControl building control app
- Wrote and executed unit tests for RC-WebView, a building control web app
- Designed and executed a company-wide Functional Stress Test for the myControl app

PERSONAL PROJECTS

ReqCheck.tech
Prerequisite Class Tree Generator

- Takes any UVic class and generates tree of all pre- and co-requisites using scraped data from UVic website
- Includes RateMyProfessor rating for current profs
- Currently expanding scraper to include UBC classes

myStyle
Neural Network Outfit Generation App

- iOS and Android app that suggests daily outfits by considering user preferences and wardrobe
- Designed UI in inVision for School Project (98%)
- Currently developing Python Neural Network and Amazon Rekognition backend

SneakerBot
Online Item Auto-Checkout Bot

- Python program designed to purchase limited sneakers online as quickly as possible
- Currently expanding to purchase limited event tickets