BEN MAZEROLLE

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ABOUT ME

Growing up in BC, I spent most of my childhood skiing and hiking in the mountains surrounding my home. Now, as a University student on Vancouver Island, I'm passionate about powerlifting, cooking new foods, backpacking around the world, and am a one time beer league all-star for my recreational league.

EDUCATION

Bachelor of Software Engineering
University of Victoria
📅 September 2016 - August 2021   📍 Victoria, BC

Relevant Courses
- Requirements Engineering
- Human Computer Interaction
- Foundations of Computer Science
- Software Architecture and Design
- Data Mining
- Security Engineering
- Software Testing

TECHNICAL SKILLS

Languages: C, C#, Java, JavaScript, TypeScript, Python, C++, Ruby

Frameworks: Bootstrap, Vue.js, Node.js, Rails

Test Development and Managment:
Telerik JustMock, Manual Unit and Stress test creation

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

Database Creation and Maintainence: SQL, PostGreSQL, MongoDB, AJAX programming

Development Tools: Git-based workflow, Microsoft Team Foundation Server, Azure DevOps Server

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

Core Competencies

Leadership: Led team of 10+ developers for ORCASat

Agile Development: Participated in agile team with Reliable Controls, initiated agile development for ORCASat

Research: Built ORCASat ADCS from scratch, developed multiple new features for Reliable Controls

AWARDS

T.S. McPherson Entrance Scholarship
📅 May 2016

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

EXPERIENCE

Software Developer
Reliable Controls Corporation
📅 May 2019 - Present   📍 Victoria, BC

- Resolved and tested various bugs involving JS code, SCSS styling, SQL database, and C++ backend, C# service
- Designed and implemented new features, including "What's New" carousel displayed to users on login
- Contributed to and reviewed architectural changes including live data and transition to microservice architecture

ADCS Software Development Lead
UVic Center for Aerospace Research
📅 May 2018 - November 2019   📍 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

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

BillSplit
Group Purchase Splitting Web App
- Built with Typescript and Node.js, front end done in PUG, AJAX MongoDB, hosted on Heroku
- Users create and join groups, add purchases, and receive in-app notifications of their owing balance each month
- Currently expanding to bill through Paypal API

ReqCheck.tech
Prerequisite Class Tree Generator
- Built with Vue.js, data scraped with BS4 Python file
- Takes any UVic or UBC class and generates tree of all pre- and co-requisites using scraped course page data
- Includes RateMyProfessor rating for current professors