

Ben Mazerolle

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EDUCATION

UNIVERSITY OF VICTORIA

BSENG SOFTWARE ENGINEERING

August 2022 | Victoria, BC

Major GPA: 8.13 / 9.00

COURSEWORK

Data Mining

Operating Systems

Artificial Intelligence

Database Systems

Analysis of Algorithms

Software Architecture and Design

Empirical Software Engineering

Security Engineering

SKILLS

LANGUAGES

JavaScript • Python • TypeScript

C# • C • SASS • C++

Kotlin • Swift • HTML5 • SQL

FRAMEWORKS

Node.js • .NET core • Vue.js

React.js • Angular.js

TECHNOLOGIES AND TOOLS

Docker • Kubernetes • Git

Travis • Heroku • AWS S3 • Selenium

AWARDS

2020 7.50+/9.00 GPA

UVic T.S. McPherson Scholarship

2018 2nd

Canadian Satellite Design
Challenge

2016 1st

District of Saanich Green Energy
Design Competition

LINKS

Github:// [bmazerolle](#)

LinkedIn:// [ben-mazerolle](#)

EXPERIENCE

RELIABLE CONTROLS | SOFTWARE DEVELOPER

Sep 2019 – Present | Victoria, BC

- Full-stack developer - Wrote and reviewed JavaScript, SASS, and HTML code using Node and C# code using .NET Core for Webview, a webapp.
- Mobile developer - Wrote and reviewed Kotlin, Swift, and HTML5 code for myControl, an iOS/Android building control app.
- System Architecture - Contributed to, documented, and implemented transition to live data and microservices architecture.
- Software Support - Assisted customer service with technical questions.

RELIABLE CONTROLS | SOFTWARE DEVELOPER CO-OP

May 2019 – Sep 2019 | Victoria, BC

- Front-end developer - Wrote and reviewed JavaScript, SASS, and HTML code using Node, Dojo toolkit and Vue.js.
- Lifecycle Management - Led and shipped 'What's New' feature - an auto-updating widget displaying new features added to Webview webapp.

UVIC CENTER FOR AEROSPACE RESEARCH | SOFTWARE DEVELOPER CO-OP

Sep 2018 – Jan 2019 | Victoria, BC

- Algorithm Design - Designed and implemented attitude controller algorithms and operating system using Matlab, FreeRTOS and C.
- Research and Documentation - Procured hundreds of pages of technical documentation covering algorithm creation and test plans for the Canadian Space Agency.

RELIABLE CONTROLS | QUALITY ASSURANCE ANALYST CO-OP

Jan 2018 – May 2018 | Victoria, BC

- Automated testing - Wrote and designed automated tests for Webview, a web app, using Selenium and JustMock.
- Test Case Design - Designed 200+ test case suite for stress testing myControl, a mobile app, and Webview, a web app.

PROJECTS

BILLSPLIT | BILL SPLITTING WEBAPP

Built Node.js webapp, including AJAX database, that splits bills.

Authenticated users can add other users to groups, add purchases, and approve group purchases. Hosted as a Docker Container on Heroku, DevOps run with Travis, data stored with MongoDB.

REQCHECK | PREREQUISITE TREE BUILDING WEBAPP

Built Vue.js webapp that visualizes a prerequisite tree for UBC and UVic classes for NwHacks 2019. Scraped and formatted all data using Python BS4.

CAR VALUE PREDICTOR | MACHINE LEARNING ALGORITHM FOR VEHICLE VALUATION

Implemented and tested Scikit-learn based algorithm to value vehicles using condition and appearance metrics that was 95% accurate within \$50 of value.

UVIC SATELLITE DESIGN | SOFTWARE LEAD

Led the software development of ORCASat and Homathko Nanosatellites with team of 10 undergraduate and graduate students.