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 webapp, 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 **BillSplit**, a Node.js webapp with an 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.