Ben Mazerolle

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EDUCATION

UNIVERSITY OF VICTORIA
BSEng Software Engineering
August 2022 | Victoria, BC
Major GPA: 8.21 / 9.00

COURSEWORK

Data Mining
Systems for Massive Datasets
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 • C++
Kotlin • Swift • HTML5 • SASS

FRAMEWORKS
Node.js • .NET core • Vue.js
React.js • Angular.js

DATABASES
SQL • PostgreSQL • MongoDB

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

AMAZON | Software Development Engineer Intern
May 2021 - Present | Vancouver, BC
- Full-stack developer - Designed and built a custom image uploading and editing tool for corporate gift card clients. Tool built using JavaScript, Java and AWS S3. Pipeline and testing built using TestNG, Mockito and AWS CodePipeline, S3, and Cloudwatch. Deployed worldwide, eliminated over 5 person-weeks of manual effort and used in over 100 million in sales yearly.
- Full-stack developer - Designed and built internal review tool for images uploaded by corporate gift card clients. UI built on internal platform using React, backend and pipeline built using AWS Lambda, Cloudwatch, Api Gateway, and S3. Deployed worldwide for internal use.

RELIABLE CONTROLS | Software Developer
May 2019 – Apr 2021 | 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.

UVIC CENTER FOR AEROSPACE RESEARCH | Software Developer Co-op
Sep 2018 – Dec 2018 | 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 CSA.

RELIABLE CONTROLS | Quality Assurance Analyst Co-op
Jan 2018 – Apr 2018 | Victoria, BC
- Automated testing - Wrote automated tests using Selenium and JustMock.
- Test Case Design - Designed 200+ stress test cases for mobile and web apps.

PROJECTS

BILLSPLIT | Bill Splitting Webapp
Built a Node.js webapp to split 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.