

Jofred Cayabyab

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Skills

Proficient: Java, JavaScript, React, Redux, Node.js + Express, C, C++, UiPath, FME, Git

Familiar: MATLAB, Python, VB.NET, PL/SQL

Education

University of Calgary

Sep 2017 – May 2022

- Bachelor of Science in Software Engineering

GPA: 3.94/4

Relevant Coursework: Data Structures and Algorithms, Principles of Software Development (OOP), Computer Organization (Assembly)

Experience

Encana [Student System Analyst](#)

May 2019 – August 2019

- Used **UiPath** and **FME** to automate multiple administrative processes, including the creation of invoices and reports, saving approximately 30 hours per month of repetitive data-entry work and improving risk mitigation by eliminating human error.
- Created self-serve report pages and **PL/SQL** statements to streamline access to asset management information.

Student Organization for Aerospace Research [Software Team Member](#)

Sep 2018 – May 2019

- Contributed to the construction of a rocket to be launched at the Intercollegiate Rocket Engineering Competition at Spaceport America.
- Used **C** and **Python** to program embedded systems onto STM32 microcontrollers such as sensors and equipment onboard the rocket, including the GPS system.

University of Calgary [Undergraduate Researcher](#)

Jun 2018 – Aug 2018

- Researched computer vision applications for the structural health monitoring of civil infrastructure through vibration monitoring.
- Used **MATLAB** to implement a computer vision algorithm to detect imperceptible motions in video signals.
- Wrote a technical report detailing methodology and results to be submitted to a scientific journal.

Projects

datespot datespot.surge.sh

Nov 2018

- Produced a web application that uses the **Google Maps API** to recommend date locations to users.

Technical skills gained/improved: **React, Redux, JavaScript**

CrowdBrain crowdbrain.herokuapp.com

Aug 2018 – Sept 2018

- Produced a web application that allows interaction between developers and their userbase through a project sharing system.
- Allows users to provide feedback on shared project features through commenting, handled through a RESTful API implemented with **Express**.
- Seamless user login implemented through **Google OAuth** and **Passport.js**.

Technical skills gained/improved: **MongoDB, Node.js, Express, React, Redux**