

Jofred Cayabyab

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Skills

Proficient: C, C++, JavaScript, React, HTML, CSS, Redux, Node.js + Express, Git, MATLAB

Familiar: Python, Java

Education

University of Calgary

Sep 2017 – May 2022

- Bachelor of Science in Software Engineering

GPA: 3.973/4

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

Experience

Extracurricular

Computer Engineering Student's Society Professional Development Commissioner Sep 2018 – Current

- Work together with VP Events to plan professional development events for the University of Calgary software, electrical, and computer engineering student body.

Student Organization for Aerospace Research Software Team Member Sep 2018 - Current

- Contribute to the construction of a rocket to be launched at the Intercollegiate Rocket Engineering Competition at Spaceport America.
- Use **C** and **Python** to program embedded systems such as sensors and equipment onboard the rocket, including the payload, barometer, altimeter, and magnetometer.

Research

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 comprehensive technical report detailing my methodology and results in the process of being 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 github.com/JCayabyab/CrowdBrain

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, which is 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**