

Jofred Cayabyab

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Skills

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

Familiar: MATLAB, Python

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

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 onto STM32 microcontrollers such as sensors and equipment onboard the rocket, including the GPS system

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.

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**