

Callum May

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Fifth-year Computer Engineering student with a strong foundation in modern software development, a driven mindset and a passion for new technologies

Education

McGill University

2013 - 2018

Bachelor of Engineering in Computer Engineering (B. Eng)
Expected graduation May 2018; **CGPA 3.9/4**

- Dean's honor List (1st & 3rd year)
- Beverly and Arthur Mendel Family Scholarship
- Engineering Class of 1983 Scholarship
- Winner of Fall 2015 Design Principles and Methods Robotics Contest - [GitHub](#)
- Exchange semester abroad in Melbourne, Australia (Feb 2016 - June 2016)
- Rio Tinto - Richard Evans Exchange Award
- Baylis Scholarship
- John Howard Ambrose Scholarship

Work Experience

RBC Amplify Developer - Royal Bank of Canada

(Toronto, ON) - May 2017 to Aug 2017

- Worked as part of a four-student team that independently designed, prototyped and implemented an iOS app based on stakeholder requirements. At the end of the summer we pitched our idea to RBC executives.
- I was the primary developer of the backend API micro-services, implemented using Node.js Serverless framework and supported by a DynamoDB database. The application was deployed through Lambda and API Gateway.
- I also assisted in the development and training of our object detection algorithm, based on tinyYOLO and Darknet, deployed on Apple's new CoreML framework within our iOS app.

Front End Developer Intern - Busbud

(Montreal, QC) - Jan 2017 to Apr 2017

- Worked closely with the product and design team to improve the performance, functionality and reliability of the main website, primarily using React and Node.js.
- Improved the booking email service in order to provide a better user feedback experience.

Software Engineering Intern – Replicon

(Calgary, AB) Jun 2016 to Dec 2016

- Implemented continuous delivery best practices through integration with Amazon Web Services; building code pipelines and automating unit testing through integration with AppVeyor and AWS Code Pipeline

(Calgary, AB) May 2015 to Aug 2015

- Developed a C# command line scripting application to migrate the entire Replicon code repository from AccuRev to Git.
- Provided unit testing and bug fixing throughout various products and services in order to improve product reliability.

Personal Projects

Elevate - [Chrome Web Store](#)

JavaScript (React, Preact), HTML, CSS

- A new tab extension for Chrome designed to improve productivity. Integrates with Unsplash's photo API to provide beautiful, customizable background photos each hour. Includes common productivity tools like a notepad and task list.

Intro to ML by Andrew Ng - [Coursera](#)

MATLAB, Python

- A 12-week online course on the fundamentals of Machine Learning. Topics included supervised and unsupervised learning, neural networks and large-scale machine learning. I took this course to further expand my foundation in Machine Learning.

Pi Notification Center - [GitHub](#)

Python, Node.js (Electron), JavaScript (Angular), HTML, CSS

- A notification center built for the Raspberry Pi touchscreen using Electron. Integration with multiple 3rd party API's including weather, sport scores, and Google Maps route information. Includes a Flask server that uses the Raspberry Pi camera to determine the light level in the room, and shuts off the display (at night).

Technical Toolbox

Experienced

- AWS (DynamoDB, EC2, Lambda, S3), CSS, HTML, Java, JavaScript (Angular, React, Express, Serverless), Node JS, React Native, Sketch, Swift 2/3, VHDL

Familiar

- C, C#, C++, MATLAB, MongoDB, Objective-C, PostgreSQL, Python