Callum May

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Education

McGill University **2013 - 2018**

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

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

Work Experience

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 on both mobile and desktop, primarily using React and Node.js.
- Implemented various features at different stages in the booking flow intended to increase funnel conversion rate.

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 application to migrate the entire Replicon code repository from AccuRev to Git. The shift to Git greatly improved developer productivity.
- Provided unit testing and bug fixing throughout various products and services in order to improve product and site reliability.

Personal Projects

Elevate - available in the chrome web store

JavaScript (React), HTML, CSS

- A new tab extension for Chrome designed to improve productivity. Downloadable on the Extension Store.
- Integrates with Unsplash's photo API to provide beautiful, customizable background photos each hour. Includes common productivity tools like a notepad and task list.
- Additionally planned features include Google Analytics/usage tracking, external integrations such as Wunderlist and Trello.

Hockey Slapshot Action Recognition - Paper

MATLAB, Python, TensorFlow

- Under the supervision of Professor Martin D. Levine we are developing a neural network that can detect slapshots during broadcast hockey games. Each video action sequence is transformed into a single image using a Dynamic Image Neural Network. Our classification network is then trained on the resulting image.

Pi Notification Center - GitHub

Python, Node.js (Electron), JavaScript, 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.

Technical Toolbox

Experienced

- C#, CSS/HTML, Java, JavaScript/Node JS, Python, Swift, VHDL

Familiar

- C, MATLAB