

Matthew MacRae-Bovell

Computer Science Student

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WORK EXPERIENCE

Student, IT Systems Developer

Bank of Canada

Ottawa, ON

05/2019 - Present

React JavaScript ES5/ES6+ JQuery

- Developed an internal tool using functional React components and the React context hook to manage state
- Implemented and redesigned the relational data models of an existing web application to optimize data retrieval from RESTful endpoints
- Used an agile workflow to create optimized web interfaces based on the requests of specific internal clients
- Worked with JavaScript and techniques such as asynchronous programming to improve client-side performance and maintain legacy applications

Junior Web Developer

Explorator Technology

Ottawa, ON

04/2019 - Present

React Ruby on Rails GraphQL Apollo

- Implemented user authentication with JSON web tokens between a React client and Ruby on Rails API using GraphQL and Apollo client hooks
- Utilized GraphQL to optimize client bandwidth usage and create a more secure and less exposed backend architecture
- Developed responsive user interfaces using functional React components, React hooks, and SASS web styling

Full Stack Developer Intern

QuantConnects

Ottawa, ON

12/2018 - 04/2019

Angular 2 ASP.NET Stripe SQL

- Developed and maintained an in-development cloud storage web application built on an Angular and ASP.NET web stack
- Implemented the Azure Search service to enrich the results of user input search queries by accounting for semantic errors and optical character recognition
- Integrated the Stripe payment API to add payment options and monthly payment plan functionality

Python Developer Co-op

Digitera Interactive

Ottawa, ON

07/2017 - 08/2017

Python Selenium

- Utilized Python, BeautifulSoup, and Selenium to develop automated web application tests and web scrapers

EDUCATION

B.C.S. in Computer Science (Honours)

Carleton University

Ottawa, ON

09/2018 - 04/2022 (Expected)

- Presently learning the fundamentals of systems programming, algorithm time complexity, abstract data types, software engineering, and web development

TECHNOLOGIES

Languages: Golang JavaScript Python Java

Frontend: React SASS Webpack HTML/CSS

Backend: Ruby on Rails Node.JS Flask

Other: Git Docker GraphQL TypeScript

RECENT PROJECT

Stack Search

CuHacking 2019

Ottawa, ON

02/2019

Python Flask Bootstrap Selenium Heroku

- Stack Search is web application that crawls the web and indexes jobs based on technical skillset to simplify job searching for software developers
- The project was built collaboratively at CuHacking 2019 using a Flask backend, and Selenium for data retrieval

EXTRA CURRICULARS

Vice President

Carleton Computer Science Society

Ottawa, ON

10/2018 - Present

- Elected representative acting as a liaison between students and the Department of Computer Science regarding academic issues, policies, and events, representing over 1000 undergraduate students

Hackathon Organizer

CuHacking 2020

Ottawa, ON

04/2019 - Present

- Presently working with the CuHacking organizer team to coordinate workshops, social events, and activities to take place during the hackathon and the fall 2019 semester