

Matthew MacRae-Bovell

Impact-Driven Software Developer (He/Him)

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EXPERIENCE

Shopify

Software Developer

Sept 2021 - Present

Ruby on Rails React Golang Kafka GraphQL Datadog

Flow Team - Contributing to Flow, a tool automating millions of tasks within Shopify stores

- Collaborated with product, UX, and adjacent engineering teams to design and develop features for the Flow automation engine, contributing to all phases of the software development lifecycle
- Demonstrated proficiency in designing reliable fault-tolerant distributed systems with service-oriented architecture while incorporating technologies such as Redis, Kafka, and MySQL
- Worked in a team of four to unify the developer experience of first-party and third-party developers, significantly reducing platform integration complexity and removing custom first-party code
- Participated in scheduled "on-call" rotation responsible for identifying and triaging production bugs
- Utilized observability and monitoring tools such as Splunk and Bugsnag to identify system issues
- Verified impact of changes on SLOs by utilizing load tests, metrics, and Datadog notebooks
- Managed Kubernetes manifests and cloud service configurations with Terraform
- Authored technical specifications subject to review from co-workers and senior leadership
- Leveraged knowledge of codebase to support others through pair programming and code reviews

Royal Bank of Canada

Software Developer Intern

May 2021 - Aug 2021

Angular TypeScript Spring Java RxJS MongoDB

Choose A Bank Team - Contributed to applications and tools focused on customer acquisition

- Contributed to designing the foundational architecture of several core application features
- Delivered features by coordinating with upstream microservice teams to expose necessary data
- Created responsive and resilient WCAG AA-compliant web components

TheScore

Software Developer Intern

Jan 2021 - Apr 2021

Elixir Ruby on Rails Phoenix Kubernetes CircleCI

Sports Core Team - Contributed to the services behind TheScore's sports media application

- Worked in a team of six to develop and maintain an Elixir based sports data ingestion service
- Utilized OTP and Actor model to develop fault-tolerant concurrent ingestion processes
- Created endpoints in coordination with mobile teams to support new server-driven UIs

Fullscript

Software Developer Intern

Sept 2020 - Dec 2020

Ruby on Rails React TypeScript GraphQL Docker

API and Integrations Team - Contributed to Fullscript's developer API and third-party integrations

- Worked in a team of eight to enable third-party developers to embed key Fullscript components as iframes, vastly reducing the complexity and time required to integrate with Fullscript
- Developed GraphQL operations for third-party developers to authenticate via OAuth with Fullscript

Kinaxis

Application Platform Developer Intern

May 2020 - Aug 2020

ASP.NET C# Java Maven Jenkins

Platform Team - Contributed to the services behind Kinaxis' supply chain management platform

- Worked with ASP.NET to add features to a variety of SOAP based web services
- Improved build time of Java project by configuring Jenkins to build key modules as Maven artifacts

Bank of Canada

Student, IT Systems Developer

May 2019 - Apr 2020

JavaScript JQuery HTML/CSS Azure

Corporate Administration Portfolio - Built internal tools for administration departments

EDUCATION

Bachelors of Computer Science Honours

Sept 2018 - Apr 2023 (expected)

Carleton University - Ottawa, ON

COMMUNITY

Carleton Computer Science Society

Sept 2018 - Apr 2023

President and five-time elected executive, led the organization of events and services for 2500+ students.

CuHacking

Mar 2019 - Jan 2021

Contributed to the organization of Carleton's annual hackathon attended by over 600 students.

OPEN SOURCE

Sorbet

September 2021

Contributed fixes to the core Ruby types provided by Sorbet.

GraphQL-Ruby

February 2021

Fixed outdated documentation impacted by the release of Ruby 3.0.

DiscreteMath.ca

March 2020 - Present

Created a web platform for Carleton University's discrete math courses used by hundreds of students.

TECHNOLOGIES

Languages Backend

JavaScript Python Java Ruby on Rails Django Spring

Frontend Infrastructure

React Svelte Angular Docker Kubernetes Terraform