

## Education

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### University of Ottawa

Bachelor of Applied Science in Software Engineering  
GPA: 8.3/10 (OMSAS conversion: 3.6/4)

Sep 2014 - Dec 2018

## Work Experience

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### Software Engineering Co-op Program Participant

Mozilla

May 2018 - Aug 2018

- Overhauled the Firefox about:crashes page by eliminating user data privacy issues and simplifying the user experience
- Moved crash-stats.mozilla.com login process from Google Sign-In to OpenID Connect with Python, Django, and Docker
- Laid the foundation for React migration project for [github.com/mozilla-services/socorro](https://github.com/mozilla-services/socorro) that leverages Jest and Enzyme

### Software Engineering Co-op Program Participant

Wealthsimple

Sep 2017 - Dec 2017

- Rebuilt the Wealthsimple for Work front end into an AngularJS component-based architecture with Flow typing
- Developed new payroll management features that eliminated 8 man-hours of work per week with Ruby on Rails
- Implemented 4 reusable AngularJS components for use throughout the whole organization

### Software Engineering Co-op Program Participant

TekSavvy

Jan 2017 - Apr 2017

- Created new mobile-first customer signup process to improve completion rates for web app with AngularJS and .NET
- Designed AngularJS module for horizontally scrolling navigation tabs
- Programmed module for company newsletter subscription by leveraging the HubSpot API

### Software Engineering Co-op Program Participant

Statistics Canada

May 2016 - Aug 2016

- Built desktop program extension for editing tax data of over 1M Canadian partnership records with VB.NET and WPF
- Optimized ASP.NET web page for querying IIS file server and improved search time by 25%
- Wrote PL/SQL scripts for automated data transfers between deployment environments within Oracle database

## Open-source Contributions

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### Firefox Debugger - React, Redux, Flow, Jest

- Merged 6 pull requests and contributed to 14 issues

## Personal Projects

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### PortfolioRebalancer.com - React, Redux, Node.js, Express, MongoDB, Webpack, Heroku

- Created web app for computing the exact steps needed to rebalance investment portfolios in  $O(n)$  time
- Implemented real-time fetching of prices and conversion rates through the Alpha Vantage API
- Added functionality for storing custom portfolios through secure internal registration or Google OAuth 2.0
- Acquired over 3500 overall users and 190 registered users

### MarketPar - React Native, ES8

- Developed cross-platform mobile game about challenging historical stock market returns
- Obtained over 140 total downloads on iOS and Android

### Tournament Architect - Android SDK, SQLite3, Gradle

- Built Android app for creating and playing automatically generated tournaments
- Leveraged the Dropbox API for cloud data syncing
- Acquired over 150 Google Play lifetime installs with previous iteration

## Skills

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**Languages:** JavaScript, Java, HTML, CSS, Python, SQL, C#, VB.NET

**Libraries/Frameworks:** React, AngularJS, Django, React Native, Express, Ruby on Rails, ASP.NET

**Tools:** Git, Mercurial, Node.js, Jest, Flow, Android SDK



