

# Russell Clarey

r.e.clarey@gmail.com  
russellclarey.com  
github.com/rclarey  
linkedin.com/in/rclarey

3B Software Engineering

## SKILLS

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### LANGUAGES

JavaScript, TypeScript, C++, C,  
Java, Ruby

### WEB DEVELOPMENT

React, Redux, Ember.js,  
Ruby on Rails, Socket.io

### BACKEND DEVELOPMENT

Express.js, Node.js, MySQL,  
MongoDB

### TOOLS

Git, Vim, Webpack

## EDUCATION

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### SOFTWARE ENGINEERING

University of Waterloo  
2015 – 2020

## INTERESTS

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Web development  
Science fiction novels  
Hiking  
Japanese language

## EXPERIENCE

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### SONY INTERACTIVE ENTERTAINMENT

Waterloo, ON

Software Engineering Intern

Sep – Dec 2017 & Jun – Aug 2018

*Ember.js, JavaScript, TypeScript*

- Developed new models and declarative view components for a redesigned checkout flow in the PlayStation Vue commerce site
- Heavily expanded TypeScript commerce library that implements the core functionality for all PlayStation Vue commerce clients
- Refactored local state in Ember.js services into models to make app behaviors easier to reason about

### MITRE MEDIA

Toronto, ON

Web Developer

Jan – Apr 2017

*Ruby on Rails, JavaScript, MySQL*

- Developed custom financial tools across many of the company's 7 web apps
- Led the design and development of a custom internal tool to allow for navigation menus to be easily edited across all 7 web apps
- Rebuilt and refactored legacy PHP tools into new Ruby on Rail stack
- Reduced load speeds on a popular tool by refactoring it into a static page that updates asynchronously with AJAX
- Extended and improved various frontend components, such as allowing rows in table components to be dynamically locked based on user state

### CANADA COMPANY

Toronto, ON

Web Developer

May – Aug 2016

*Java, JavaScript*

- Developed and successfully launched 3 new microsites to provide a targeted experience for each user type
- Implemented functionality for dynamic user forms
- Designed and began development of an email preference system

## PROJECTS

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### CLOUDCODE

*React, Express.js, Node.js, Socket.io*

A real-time collaborative coding web app built with my own hand-written operational transform library. The app allows multiple users to edit a file simultaneously. Users with an account can save files to their account in a file/folder hierarchy.