Russell Clarey

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3B Software Engineering

SKILLS

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

SOFTWARE ENGINEERING
University of Waterloo
2015 – 2020

INTERESTS

Web development
Compilers
Science fiction novels
Hiking
Japanese language

EXPERIENCE

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
- Other work under NDA

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
- 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

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.