

# Andrew Robert McBurney

Software Engineer | (289) 241-7988 | andrewrobertmcburney@gmail.com

## Workplace Experience

### Software Engineering Intern

Datadog

Jan. 2018 — Apr. 2018

New York, NY | USA

- >> Implemented a persistent caching system for Homebrew, improving performance of the `brew linkage` command by 97%; wrote a [blog post](#) detailing the analysis & optimization.
- >> Built an [open-source](#), self-hosted server for managing Trello cards based on GitHub events, allowing teams to incorporate community contributions into their agile sprints.

### Software Engineering Intern

Doximity

May 2017 — Aug. 2017

San Francisco, CA | USA

- >> Created an internal web scraper to query GitHub's GraphQL API to find potential hires for engineering outsourcing.
- >> Implemented a redis-based locking mechanism for an internal deployment tool restricting the number of deployment jobs to one job per environment.

### Software Developer Intern

Vena Solutions

Sep. 2016 — Dec. 2016

Toronto, ON | Canada

- >> Optimized SQL queries solving a n+1 query problem by fetching lazily loaded object members before serialization, decreasing mean response rate by 99% (~1m to <1s).
- >> Placed second in a pair-programming unit test competition involving all developers at the company (~60 engineers), judged by the quality and quantity of tests written.

## Open Source Experience

### Fastlane

Mobile Continuous Integration

Feb. 2018 — Present

[github.com/fastlane/ci](https://github.com/fastlane/ci)

- >> Core contributor to [Fastlane Tools](#), helping build the backend infrastructure for their mobile-first continuous integration system.
- >> Third-highest number of [commits contributed](#); over forty [pull requests merged](#).

### Conductor

Distributed Job-Scheduling System

Sep. 2017 — Dec. 2017

[github.com/armcburney/conductor](https://github.com/armcburney/conductor)

- >> Co-implemented a distributed job management system for registering workers, and scheduling jobs to execute on them, allowing for conditional scheduling.

### Emerald Language

HTML5 Templating Engine

Sep. 2016 — Dec. 2017

[github.com/emerald-lang](https://github.com/emerald-lang)

- >> Designed and implemented a whitespace-delimited HTML5 templating engine with support for variable scoping, interpolation, iteration, and conditional logic.

## Leadership Experience

### Vice President, Academic

Waterloo Engineering Society

Sep. 2016 — Dec. 2017

Waterloo, ON | Canada

- >> Coordinated professional development events for hundreds of engineering students such as tech talks, career fairs, résumé critiques, and interview skills workshops.

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## Languages

Ruby

Go

Python

TypeScript

JavaScript

C++

## Technologies

Ruby on Rails

Sinatra

Flask

Angular

Node.js

PostgreSQL

MySQL

SQLite

Redis

Docker

Vagrant

WebGL

HTML5 (Slim, Pug)

CSS3 (SCSS, SASS)

## Interests

Distributed Systems

Concurrent Programming

Functional Programming

Computer Graphics

Recording Music

## Education

Bachelor of Software Engineering

University of Waterloo, Waterloo ON

Sep. 2014 — Apr. 2019