

Andrew Robert McBurney

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

Workplace Experience

Software Engineering Intern

Google

Sept. 2018 — Dec. 2018

New York, NY | USA

- >> Designed and implemented a Ruby parser in Golang to parse arbitrary Ruby files and convert them into an abstract syntax tree representation.
- >> Developed an unparser to transform the abstract syntax tree representation back into its corresponding equivalent Ruby source code.

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 a tool to query GitHub's GraphQL API to find developers for engineering outsourcing; wrote a [blog post](#) detailing the robustness of the API and comparing the differences with their REST API.

Open Source Experience

Calder

Procedural Modeling Tool

May 2018 — Present

[github.com/calder-gl](#)

- >> Co-designed and developed an API and code editor to design procedural models interactively by generating them from guiding curves.

Fastlane

Core Contributor

Feb. 2018 — Sept. 2018

[github.com/fastlane](#)

- >> Helped design and implement the backend for their open source mobile-first continuous integration platform.
- >> Contributed with [over 50 pull requests](#), modified over 10,000 lines of backend code.

Conductor

Distributed Job-Scheduling System

Sept. 2017 — Dec. 2017

[github.com/armcburney/conductor](#)

- >> Co-implemented a distributed job management system for registering workers and scheduling jobs to execute, allowing for conditional scheduling based on users' business 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

Python

TypeScript

JavaScript

Emacs Lisp

Golang

C++

Technologies

Ruby on Rails

Angular

Flask

Docker

GraphQL

PostgreSQL

MySQL

WebGL

HTML5

CSS3

Interests

Distributed Systems

Functional Programming

Computer Graphics

iOS Development

Recording Music

Blogging

Education

Bachelor of Software Engineering

University of Waterloo, Waterloo ON

Sep. 2014 — Apr. 2019