

Andrew Robert McBurney

Software Engineer | (289) 241-7988 | andrew@mcburney.email

Workplace Experience

Software Engineering Intern Sept. 2018 – Dec. 2018
Google 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 Jan. 2018 – Apr. 2018
Datadog 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 May 2017 – Aug. 2017
Doximity 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 May 2018 – Present
Procedural Modeling Tool 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 Feb. 2018 – Sept. 2018
Core Contributor 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 Sept. 2017 – Dec. 2017
Distributed Job-Scheduling System 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 Sep. 2016 – Dec. 2017
Waterloo Engineering Society Waterloo, ON | Canada

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

 @armcburney

 armcburney.com

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

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