Andrew Robert McBurney

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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

>> Core contributor to Fastlane Tools, helping build the backend infrastructure for their mobile-first continuous integration system.

>> Third-highest number of commits contributed; over fourty pull requests merged.

Conductor
Distributed Job-Scheduling System

Sep. 2017 — Dec. 2017
github.com/AndrewMcBurney/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

>> 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.

Languages

Ruby
Python
TypeScript
JavaScript
Scala
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