

Andrew Robert McBurney

Full Stack Developer | Student Leader | Aspiring Engineer | Musician

Workplace Experience

Software Engineering Intern

Doximity

May 2017 — Aug. 2017

San Francisco, CA

- >> Converted background job processes from resque to sidekiq in internal deployment tool, and **implemented a redis-based locking mechanism** for restricting the number of deployment jobs to one job per staging/production environment

(Ruby on Rails, Redis)

- >> Created an internal web scraper to query GitHub's GraphQL API to find potential hires for engineering outsourcing: andrewrobertmcburney.com/blog/graphql-vs-rest

(Ruby, GitHub GraphQL API, PostgreSQL)

Software Developer Intern

Vena Solutions

Sep. 2016 — Dec. 2016

Toronto, ON

- >> Optimized SQL queries in a REST API by solving a n+1 query problem instance, fetching lazily loaded object members before object serialization, **decreasing mean response time by 99% (~1m to <1s)** for the endpoint

(Java, MySQL, Hibernate)

- >> **Placed second in pair test-case writing competition** involving all developers at the company (~60 people), judged by the quality and quantity of test cases written

(Java, JUnit, Selenium)

Front End Developer Intern

Coupgon

Jan. 2016 — Apr. 2016

Toronto, ON

- >> Developed a grocery store analytics application to dynamically generate store map dashboards to monitor flow of users in a grocery store, modeling user flow with bezier curves, based on data queried from a RESTful API

(Angular2, TypeScript)

Leadership Experience

Vice President, Academic

Waterloo Engineering Society

Sep. 2016 — Present

Waterloo, ON

- >> Student representative on ~10 university committees with the primary responsibilities of acting as a liaison and **advocating on behalf of all undergraduate engineering students** for issues related to academic affairs, co-op, and professional development

- >> **Coordinated events for hundreds of undergraduate engineering students** including tech talks, Résumé Critique Workshops, Interview Skills Workshops, and our annual Career Fair: <https://www.engcareerfair.com/>

Open Source Projects

Emerald Language

github.com/emerald-lang

Sep. 2016 — Present

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

(C++ & Boost, Ruby)

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 github.com/AndrewMcBurney

 andrewrobertmcburney.com

Programming Languages

Proficient

Ruby, C++, JavaScript (Node.js)

Experienced

Java, Scala, Python, Lua, SQL

Frameworks & Libraries

Web Frameworks

Rails, Sinatra, Flask, Angular

Databases

PostgreSQL, MySQL, SQLite

Testing

Rspec, Mocha, Selenium, JUnit

Templating & Stylesheets

HTML5 (Slim, Pug) CSS3 (SASS)

Technical Skills

Tools & Services

Git, Docker, Redis, Vagrant

Hosting Providers & Services

AWS, Digital Ocean, Heroku

Continuous Integration

CircleCI, Jenkins, TravisCI

Education

Bachelor of Software Engineering

University of Waterloo

Sep. 2014 — Apr. 2019 (expected)

Interests

Artificial Intelligence

Concurrent Programming

Distributed Systems

Functional Programming

Social Activism

Craft Beer