

Andrew Robert McBurney

Full Stack Developer | Aspiring Engineer | Student Leader | Musician

Workplace Experience

Doximity

Software Engineering Intern

San Francisco, CA

May – Aug. 2017

>> 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 endpoint to find potential hires, and stored information about them in a PostgreSQL database

(Ruby, PostgreSQL)

Vena Solutions

Software Developer Intern

Toronto, ON

Sep. – Dec. 2016

>> Optimized SQL queries in a REST API by solving an $n+1$ 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)

Projects & Open Source

Emerald Language

github.com/emerald-lang

Sep. 2016 – Present

>> Co-designed and implemented a whitespace-delimited, **language-agnostic**, HTML5 templating engine with support for **variable scoping**, **interpolation**, **iteration**, and **conditional logic** from a JSON, YAML, or a language-native key-value pair context

(C, C++ & Boost, Ruby)

>> Exposed a C API so that any language with the capability to invoke C code can integrate the templating language, making it — **one templating language, for any stack**

petermcburney.com

github.com/AndrewMcBurney/petermcburney.com

Feb. 2016 – Apr. 2016

>> Built my father's artwork and photography website by implementing a CRUD Ruby on Rails application for him to manage his business

(Ruby on Rails, PostgreSQL, Heroku)

Advocacy & Representation

Vice President Academic

Waterloo Engineering Society

Sep. 2016 – Present

>> Member of 10 university committees with the primary responsibility of acting as a student liaison and **advocating on behalf of all undergraduate engineering students** at the university for academic affairs, co-op, professional development, and more

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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

Actor Concurrency Model

Artificial Intelligence

Distributed Systems

Fault-tolerant Systems

Functional Programming