

# Andrew Robert McBurney

Full Stack Developer | Aspiring Engineer | Student Leader | Musician

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 github.com/AndrewMcBurney

 andrewmcburney.ca

## Workplace Experience

### Doximity

Software Engineering Intern

San Francisco, CA

May — Aug. 2017

- >> Converted background job processes from `resque` to `sidekiq` in internal deployment tool, **reducing memory consumption by 15%**, and **average background job time by 20%** (*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

## 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