Andrew Robert McBurney

Full Stack Developer | Aspiring Engineer | Student Leader | Musician

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github.com/AndrewMcBurney

🖥 andrewrobertmcburney.com

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 XX%, and average background job time by XX%
(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