

## Karl Coelho

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### OBJECTIVE

I am looking for a computer science related internship/co-op for Summer 2018 and Spring 2019.

### EDUCATION

Rochester Institute of Technology

Rochester, NY

BS, Computer Science (Honors, Dean's List)

Anticipated Graduation - June 2020

Courses: Introduction to Computer Science I (*Data Structures & Algorithms*), *Introduction to CS II (OO-based programming)*

### SKILLS

- Proficient: Python, C#, Java, Ruby, JavaScript
- Comfortable: ASP.NET, Swift, Angular.js
- Databases: PostgreSQL, MySQL, MongoDB

### WORK EXPERIENCE

Savana Inc.

Philadelphia, PA

Software Engineering Intern

June 2017 - August 2017

- Designed and implemented performance/load testing suite for nGage Platform API to test against millions of concurrent API requests
- Incorporated Swagger developer tooling architecture for dynamic documentation generation and plugging API into multiple third party services
- Refactored nGage Platform API external services for connecting into other developer platforms and following industry standards
- Designed and developed factory patterns for entire API unit testing suite for entity models across Savana's product lines
- Worked in an agile (Scrum) software development environment with various other Microsoft technologies: ASP.NET, Windows Server, Windows SQL Server

### PERSONAL PROJECTS

ExciteDubai

*A web application that served as a social network for students in Dubai, UAE*

- Used Ruby on Rails web application framework for implementing MVC structure
- Utilized PostgreSQL database for storage of user registration data and pins
- Integrated Amazon Web Services S3 for storing uploaded images by users
- Deployed application on DigitalOcean for efficient management of backend infrastructure

Emailogy

*An online tool for sending email to anyone, from any email address you choose, for free*

- Integrated SendGrid email SMTP API for processing and sending emails
- Used Sinatra as the backend language for sending API requests
- Deployed on Heroku for simplified build workflow

Startup Validator

*A web application that acted as a name verifier for .com domains, Twitter handles and Facebook Pages*

- Used frontend JavaScript for input validation as well as loading JSON data from REST API
- Built application with Sinatra Ruby web framework for creating the API
- Implemented the Facebook SDK and Twitter SDK for user identity verification
- Deployed application on Amazon EC2 in order to scale infrastructure easily
- Integrated Amazon Web Services' Postgres managed services for optimal uptime
- Implemented Docker for orchestrating server infrastructure

Sinatra Boilerplate - [github.com/karlcoelho/sinatra-boilerplate](https://github.com/karlcoelho/sinatra-boilerplate)

*An opinionated boilerplate project / starter kit for working with Sinatra web applications*

- Integrated frontend technologies like jQuery and Twitter Bootstrap
- Utilized backend technologies like PostgreSQL
- Received 70+ stars on Github from widespread popularity of the project

### HONORS AND AWARDS

- Microsoft Imagine Cup Programming Teenagers Competition – International Winner (Spring 2014)
- Golisano School of Computing and Information Sciences - Honors Program (Fall 2016)
- RIT's Official Hackathon BrickHack – Best Video Game Hack (Spring 2017)