

Karl Coelho

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EDUCATION

Rochester Institute of Technology

BS, Computer Science (Honors)

Courses: *Data Structures and Algorithms, Object-Oriented Programming*

Rochester, NY

Anticipated Graduation - June 2020

HONORS AND AWARDS

- Microsoft Imagine Cup Programming Competition – International Winner (Spring 2014)
- Golisano School of Computing and Information Sciences - Honors Program (Fall 2016)

SKILLS

- Proficient: Ruby, Python, Node.js, Rails, Flask, Express.js, HTML, CSS
- Comfortable: Java, Swift, Angular.js
- Databases: PostgreSQL, MySQL, MongoDB

DEVELOPMENT EXPERIENCE

ExciteDubai – excitedubai.com

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 – emailogy.herokuapp.com

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

Droptext - droptext.herokuapp.com

A service for hosting small snippets of code and notes

- Used Python as the backend language for building the service
- Utilized Flask framework for building the site endpoints in order to receive note data
- Deployed application on Heroku for simplified build workflow
- Implemented MongoDB as the database for storing user and image data

Startup Validator - startupvalidator.net

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

Safenote - safenote.herokuapp.com

An encrypted note taking web application

- Used Ruby as the backend language in conjunction with Sinatra as the web framework for the controller API
- Implemented Bcrypt encryption algorithm to hash and store passwords for the notes
- Integrated MySQL as the database for storing notes
- Deployed application on Heroku for simplified build workflow

Sinatra Boilerplate - 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