

# Alex Spencer

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## Profile

Full stack web developer with 12+ years of industry knowledge. Currently seeking roles where I can be challenged. My top priority is continuing to learn new languages in an effort to increase the business value I may provide.

### Fully proficient in:

- Ruby
- Ruby on Rails
- JavaScript (ES6)
- React
- React Native
- WebRTC
- Git/Github
- PostgreSQL/MySQL
- Node/Express
- TDD
- REST
- CI/CD deployment pipelines
- JWT/Session Management
- AWS S3, Lambda, ES2
- Currently studying Python, Docker, Amazon ECS and Kubernetes

## Experience

### SOFTWARE ARCHITECT, SPECTRIO 2018 - 2019

Principal architect for a Rails application that united over seven distributed applications built from completely different codebases and frameworks. Created a, “one stop shop,” for our customers to log in and access all of the products Spectrio offers.

- Implemented a JWT architecture allowing session sharing and management across all of the platforms.
- Successfully updated a legacy Rails platform from 4.2.X to 6.
- Moved all Rails applications to a proper CI/CD development pipeline.

### SR DEVELOPER, INNOVATIONS FOR LEARNING 2017 - 2018

Primary developer for a monolithic Rails application serving teachers and students in the US, Canada, and Europe. The application paired students in underserved school districts with corporate mentors to increase reading comprehension.

- Built a WebRTC application using Node, WebSockets, and STUN/TURN services to allow students to connect to their respective mentors without the need for a 3rd party service (like Skype).
- Replaced a purely random algorithm with a spaced repetition algorithm in the content engine. This was credited with increasing reading retention and comprehension.

### **LEAD MENTOR & HEAD OF CURRICULUM, BLOC.IO - 2016 - 2017 Part Time**

National subject matter expert on Ruby/Rails, TDD, and CI/CD. Lead curriculum author of upgraded JavaScript and computer science fundamentals. Create capstone projects in a 'lead developer' role with students submitting pull requests in Rails, React, and Angular.

- Saved company \$5,000+ month by building new ES6/ES7 curricula.
- Installed in-browser code editor that evaluates/displays HTML, CSS, and JavaScript in real time.
- Taught students to leverage Google, IBM, and other popular machine learning APIs.

### **SR. WEB DEVELOPER, VECTOR LEARNING, TAMPA FL — 2015 - 2017**

Developed a micro service based, cross platform session and data manager called Maestro. It allowed our mergers/acquisition team to onboard stacks from varying code bases with ease.

- Architected internal content management/deployment system saving the need for expensive Microsoft SharePoint licenses.

## CURRENT PROJECTS

- **TheProofTampa.com** - A Rails app to collect monthly dues for a whiskey club.
- **Golfr** - An Android/iOS application for the driving range. Built in React Native.
- **PourHouse** - A rails web scraper/API feeding an Angular/Ionic iPhone app that lists all of the beers at my local brewhouse.
- **Explori.us** - The 2017 Tampa Bay Hospitality Hackathon grand prize winning application that leverages machine learning to better offer excursions to cruise passengers.

### References

*A list of references or recommendations are available upon request.*