

# 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. I believe in using the right tool for the job. This usually (but not always) means server rendered views with a sprinkling of JS > micro-service frameworks, APIs, and heavy JS frameworks.

### Fully proficient in:

- Ruby/Ruby on Rails
- Tailwind/Bootstrap CSS
- JavaScript
- React/React Native
- StimulusJS
- WebRTC/STUN/TURN
- PostgreSQL/MySQL
- Node/Express
- TDD
- CI/CD deployment pipelines
- JWT/Session Management
- AWS S3, Lambda, ES2
- Currently studying for Amazon AWS Certifications
- Developer onboarding, management, and training

## Experience

### PRINCIPAL/CTO, BEAR TECHNOLOGIES, LLC, 2019 - Present

Formed a boutique software development agency capable of producing performant, low cost web and mobile applications. We specialize in creating applications that feel like \$1M but are maintainable/extensible for years to come.

- Largest client is a Rails/Stimulus/Bootstrap app serving about 1k - 3k active users, with db rows in the millions and over 200 models/classes.
- Successfully reduced load times on several pages by 65% or more.
- Created several complex DB query/views to provide up to the minute data/reporting for C-Level project owners.

## **SOFTWARE ARCHITECT/DIR. OF ENGINEERING, 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.
- Ensured a greater than 99% uptime for over 60,000 IoT TV boxes
- Migrated all Rails applications to a proper CI/CD 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.

## **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.