

Colin Tress

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EXPERIENCE

App Academy, Hacker in Residence — (Apr - Jul 2018) -> **Bootcamp Prep Lead Instructor** — (Nov 2018 - Present)

- Prepared and delivered daily lectures on programming fundamentals and JavaScript best practices.
- Provided one on one instruction to students to prepare them for success at the nation's top coding bootcamps.
- Conducted technical admissions interviews in Ruby, JavaScript, Python, and Java.

RedRoute Inc., Software Engineering Intern — Jul 2018 - Oct 2018

- Rebuilt company website from scratch using React, Redux, and Firebase for hosting and storage.
- Worked directly with designers and product team to create a web demo which integrates with Twilio's API to allow potential clients to test RedRoute's interactive voice response (IVR) system directly from their device..
- Used Flask and state machine library Pytransitions to develop a feature for RedRoute's IVR system which identifies callers who recently cancelled a ride and offers to reschedule that ride. I integrated this feature with our A/B testing framework in order to monitor user adoption.

Recurse Center, Participant — Nov 2018 - Dec 2018

- Deepened my understanding of web visualizations by attending a self-directed educational retreat.
- Worked with peers to develop a visualization of the relative size of countries, accounting for projection distortion.
- Developed an interactive map of New York City street trees using D3 and data from NYC Open Data.

bartaco, Server Team Lead — Jul 2014 - Dec 2017

- Trained and led high performing server teams at one of the country's fastest growing restaurant groups.
- Recognized for delivering excellent customer experience in a fast-paced, high-volume environment.

PROJECTS

Pictagram – <https://picta-gram.herokuapp.com>

Full-stack Instagram clone, employing PostgreSQL, Ruby on Rails, React, Redux and AWS.

- Images are stored on and hosted by AWS S3 in order to improve load times.
- Employs Active Record methods to eliminate n+1 database queries, significantly improving performance.

Dungeon Deck – <https://tresscd.github.io/dungeondeck/>

I built this browser game while studying at App Academy, modeled after *Card Crawl* by Arnold Rauers.

- Valid move highlighting allows users to learn by playing instead of reading rules.
- Audio is treated as a sprite using methods from Howler.js library, allowing for seamless looping.

SKILLS

Programming Languages: JavaScript, Python, Ruby, SQL, HTML, CSS

Frameworks and Tools: React, Redux, Ruby on Rails, Flask, Git, S3, Firebase, Pytransitions, D3, p5, jQuery, Bootstrap

EDUCATION

App Academy – NY, NY

Software Engineering, Apr 2018

Green Mountain College – Poultney, Vermont

Bachelor of Arts, Renewable Energy & Ecological Design, May 2014