

Nathan Foss

Software Engineer

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SUMMARY

I'm a Software Engineer with a passion for social impact and technology. I teach web development to highschoolers and teens at the non-profit Code2College so students can build websites for clients and create their own project portfolio. As a Software Engineer, I develop applications and curriculum at Coding for Hermit Crabs where we teach homeless youth to program. I mainly work with React, Ruby on Rails and SQL to develop web and phone applications. I am pursuing roles in Frontend, or Full Stack Software/Web Development. Current skills: Languages: English(Native), Spanish(Full Professional Proficiency).

SKILLS

Front-End: React, React Native, Redux, TypeScript, JavaScript, HTML, CSS, Bootstrap, Material UI, Semantic UI.
Back-End: Java, Python, Ruby, Ruby on Rails, Node.js, PostgreSQL, MySQL.
Version Control: Git, Github.
Cloud-Native Application: Amazon Web Services(AWS), Firebase.

EXPERIENCE

Software Engineer Apprentice

Jan 2023 to Present

Coding For Hermit Crabs, Remote, Part-Time

Software engineering for social good, blog-writing, and social media management for Coding For Hermit Crabs social accounts.

- Assisting in the development of apps and curriculum for Coding For Hermit Crabs.
- Writing and maintaining documentation and blog posts for the Coding For Hermit Crabs blog and codebase.

Web Development Instructor

Dec 2022 to Present

Code2College, Remote, Part-Time

Web development instructor teaching classes of up to 7 students for a 9-week course wave.

- Teaching the most up-to-date HTML5 & CSS using replit.com and WordPress to guide each student in building their own personal portfolio as a Web Developer.
- Maintaining students on track to build their first Client Website in 2 weeks and learn the stages of the software development life cycle where students: Plan out steps with wireframing, Analyze details required to meet client needs, then Design, Develop, Deploy the Client Website.

PERSONAL PROJECTS

Amber Chrome Extension, React, JavaScript, HTML, CSS, Vite | Demo youtu.be/JpUv-iMOFDE

Social media timer to prevent endless distracted scrolling. Currently supports Youtube, Tik Tok, Twitter, Instagram, and Reddit.

- I learned to use event handlers to toggle popup screens and use the Google Chrome Storage API to store private user information via the user's Google Account.
- I used match patterns to allow the app only to run on social media sites with specific URL host names, eg. "youtube.com".
- I got better at managing the build and production process as I bundled JS, HTML, CSS and other assets together using Vite's front-end tooling.

Coding For Hermit Crabs, React Native, TypeScript, AWS, RESTful APIs | Demo youtu.be/IQ6UcoaSsaQ

Chatting, Video content viewing and Weather API mobile app for iOS and Android phones.

- Developed a WebSocket for live messaging between all users, reducing latency and enabling real-time updates to be displayed to users as soon as they are received.
- I was able to manage various RESTFUL APIs which allows users to dynamically see weather and air pollution data for cities in the US.
- Implemented user authorization using AWS cloud-native services for storing and updating all of our user data.

EDUCATION

Flatiron School

Sep 2022 to Jan 2023

Full Stack Software Engineering Bootcamp.

- Frontend Coursework:** Javascript Fundamentals, Object Oriented JavaScript, Intro to React, React: Components and Props.
- Backend Coursework:** Ruby Fundamentals, Regex, Sinatra and APIs, Ruby on Rails, Data Structures and Algorithms.
- Connect and support community:** Started a Discord to tutor and assist my current and incoming cohorts and homework, developed a readme and documentation around useful resources and guidelines for the course to assist newcomers, set up and proctored study sessions after class to improve student morale and outcomes.