Ajay Rajamani

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SKILLS

React, Node.js, Ruby on Rails, Redux, JavaScript, Ruby, Object-Oriented Design, PostgreSQL, RESTful APIs, UNIX OS's, D3.js, HTML5, CSS3, Sass, jQuery, AJAX, SQL, MongoDB, Mongoose, RSpec, Express.js, Git, Python, Heroku, Webpack, GIS

PROJECTS

RunMappr   (Rails, ReactJS, Redux, Google Maps API)   live | github

A route-map creation app for endurance sports with integrated workout tracker
- Designed an interactive route creation tool using React and the Google Maps API to allow users to easily log their workout routes and create new ones by drawing waypoints on a Google map
- Utilized the Google Directions API to automatically draw a route that follows streets and trails between waypoints on the route creator
- Implemented a secure user auth system using BCrypt and Object Oriented Programming on a Rails backend to allow users to sign into profiles and persist their data, including the ability to view saved route maps at a later date
- Constructed a dynamic frontend with React such that the entire app runs on a single HTML page, ensuring a smooth and fast user experience

Bloom   (MongoDB, Express.js, Node.js, ReactJS, Axios.js)   live | github

A personal goal-setting app that emphasizes positive reinforcement and integrates a visual reward system
- Collaborated with three other engineers as a backend Engineer using a centralized git repo to ensure smooth workflow and rapid progress, allowing us to complete the application in five days
- Engineered an interactive daily task list that allows the user to re-order the tasks using drag-and-drop, and designed model schema and backend API routes to facilitate saving the task list on each drag and drop

US Millenium Fire Map (Javascript, GIS, Mapbox, D3.js)   live | github

A data visualization project that displays an interactive map of all large wildfires in the continental US from 2000 until 2018.
- Transformed a GIS dataset using QGis and Tippecanoe (a Mapbox utility) to shrink the data file size from 1GB to 61MB, allowing it to be displayed to the user as one unit
- Engineered an interactive slider using vanilla Javascript and HTML, which allows the user to dynamically display fires on the map by year of occurrence, as well as interactive graphs of the data using D3.js

EXPERIENCE

Forestry Technician - Fire

US Forest Service, Tahoe National Forest   June 2017 - Nov 2019
- Served as a wildland firefighter on a Type 3 wildfire engine(1 season) and as a member of an Interagency Hotshot Crew, an elite team of 20 firefighters responsible for some of the hardest assignments on modern wildfires (2 seasons)
- Responded to rapidly evolving incidents while communicating effectively with crewmembers and supervisors in order to maintain control of hazardous work environments, such as uncontrolled wildfires and medevac efforts
- As a crew, successfully evacuated over 500 civilians from I-5 as it was being burned over by the 2018 Delta fire, before re-engaging the fire and saving a threatened neighborhood

Interpreter (Wilderness Guide)

Northern Tier High Adventure Bases   Summer 2015 and Summer 2016
- Spearheaded expeditions into the remote Quetico-Superior wilderness of Ontario, Canada, leading crews of youth aged 14-17 and adults aged 18-65 with over 55 satisfied participants
- Instructed participants in safe and ethical wilderness camping and rapidly responded to medical emergencies in order to maintain a perfect participant and staff safety record

EDUCATION

Web Development - *App Academy | Spring 2020*
BS Ecology - *University of California, Davis | 2013 - 2017*