

# Ajay Rajamani

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[PORTFOLIO](#)

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## SKILLS

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

## 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)

[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

## 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