Divyam Satyarthi

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SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, D3.js, topoJSON, Google Maps API, TensorFlow, AWS S3

PROJECTS

Heroflix | *(React/Redux, Rails 5, Heroku, AWS S3)* **live | github**

- Seeded video data on AWS S3 to ensure fast load times for the user and easy scalability for the site.
- Implemented a carousel feature that utilized six React Components and several states in order to allow the user to seamlessly browse videos with little to no load time.
- Utilized polymorphic associations in order to grab genres and their respective videos with one query, reducing the number of calls to the database drastically.

CovidConnection | *(MongoDB, Express, Node, React/Redux, Google Maps, Geolocation)* **live | github**

- Utilized Google Maps API and Geolocation API in order to obtain and plot user location on an interactive map that lets user's view the location of other users.
- Integrated Google Maps API with React to give users live updates on the map as they create posts and as others make posts.

COVID-19 Data Tracker | *(Javascript, D3.js)* **live | github**

- Implemented D3 to quickly render graphs of different COVID datasets to the user with little downtime.
- Used D3-GeoMaps to create a responsive and interactive map that can render information to the user on hover or on click.

EXPERIENCE

Research Assistant
Kennedy Krieger Institute Aug 2019 - July 2020

- Analyzed EEG and Western Blot data from genetically mutated mice in order to find potential anti seizure medications for infants.
- Programmed a script using Excel and Sirenia that quantified EEG states in mice and reduced time to analyze recordings by half.

Research Assistant
Institute of Human Virology May 2015 - Aug 2016

- Isolated and concentrated target proteins from cells by a factor of 100 in order to crystalize the protein.
- Generated computer models that located binding sites for two peptides that could be used therapeutically to combat inflammation.

Team Outreach Manager
GEMSTONE Research Team August 2015 - May 2019

- Created a device mechanical using CAD and MATLAB that could attach to the heart and power a pacemaker.
- Wrote and organized grants applications that rewarded our research team $4000.
- Presented the project at the Sigma Xi Conference at San Francisco to researchers and industry experts.

EDUCATION

University of Maryland, College Park - *BS Physiology and Neurobiology* 2019
AppAcademy - *Highly selective full stack web development program with a 3% acceptance rate.* 2020