Gordon O. Cooper III

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SKILLS: React, JavaScript, Redux, HTML, CSS, Ruby, Rails, SQL, git, Visual Basic, R, Python

PROJECTS:

93Gly (React, Redux, JavaScript, Ruby, Rails, PostgreSQL, AWS S3) live | github

A social media application for astrophotographers to share their photography with the universe

- Maximized the density of displayable information by creating a custom masonry grid using JavaScript and CSS
- Incorporated a Rails backend to CRUD images on AWS S3 to increase scalability
- Employs React and dynamically styled DOM elements to increase clarity when managing your uploads
- Constructed an application state using Redux to reduce load times and the number of HTTP requests

Eventlight (React, Redux, Node, Express, JavaScript, Mongoose, MongoDB) live | github

An event management and ticketing web application

- Redesigned the search bar using Express and Mongoose to incorporate an autocomplete feature to allow users to explore the site more intuitively
- Enabled filtering by a custom date range by employing React-Calendar to provide a visual representation to the user
- Created dynamically rendered React components to communicate search options and current search parameters to the user

Monolith (JavaScript, HTML, CSS) live | github

An original tower defense video game developed using only vanilla JavaScript

- Integrated HTML canvas and DOM elements to dynamically construct the UI allowing for interactive gameplay
- Implemented a Queue abstract data type for the towers' targeting AI and the enemies' pathing system
- Utilizes JavaScript's prototypal inheritance to structure classes ultimately resulting in DRY code

EXPERIENCE:

Junior Engineer

FlowWest, March 2018 - February 2019

- Structured geographic and hydrologic data sets to be easily parsable by R scripts for big data analysis and web app creation
- Drafted engineered solutions in AutoCAD for water resources and environmental projects using hydraulic models and environmental data
- Developed reports, figures, and design documents for stream enhancement projects for technical and non-technical audiences
- Reconciled databases of digitized data sets for Alameda County through a QA / QC process in ArcGIS for thousands of data points
- Designed multiple excavation plans for stream enhancement projects to maximize efficiency and minimize excavation costs

EDUCATION:

Web Development: App Academy (February 2019)

BS Education: California State University, Chico; Civil Engineering; GPA: 3.53

Tau Beta Pi: The Engineering Honor Society, California AA Chapter