

Gordon O. Cooper III

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SKILLS: React, JavaScript, Node, Express, Redux, HTML, CSS, Ruby, Rails, SQL, PostgreSQL, MongoDB, GraphQL, Docker, object-oriented programming (OOP), MVC, Heroku deployment, git, Visual Basic, R, Python

PROJECTS:

Eventlight (React, Redux, Node, Express, JavaScript, Mongoose, MongoDB)

[live](#) | [github](#)

An event management and ticketing web application

- Designed 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 utilizing React-Calendar providing an interactive way for the user to browse events by date
- Created modular React components for reusability and for colleagues to easily “plug and play” preconfigured code into new and existing features

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 images by creating a custom masonry grid that respects each photograph’s aspect ratio using vanilla JavaScript and CSS
- Incorporated a Rails backend to CRUD images on AWS S3 to increase scalability and provide a secure method for storing application data
- Employed dynamically rendered React components and DOM elements with respect to user input to increase the clarity and familiarity of the profile management UI
- Constructed a global application state using Redux to store previously queried data to reduce load times and the frequency of HTTP requests

Monolith (JavaScript, HTML, CSS)

[live](#) | [github](#)

An original tower defense video game developed using only vanilla JavaScript

- Integrated an animated HTML canvas and DOM elements to dynamically construct the UI allowing for smooth and seamless gameplay
- Introduced a Queue abstract data type for targeting AI and pathing systems to store incoming commands in a logical order and easily manage outgoing commands
- Leveraged JavaScript’s prototypal inheritance to structure classes ultimately resulting in DRY code and customizable subclasses while still preserving expected behavior

Handlebar (React, GraphQL, JavaScript, Apollo, Express, Node, MongoDB)

[live](#) | [github](#)

An online store for users to browse and purchase cutting-edge products

- Facilitated handling complex, nested queries using GraphQL ultimately resulting in straightforward query creation and reduced server load when compared with a RESTful API
- Stabilized the global application state using a persistent Apollo cache allowing for the user’s cart to be stored safely on the client-side between logouts and page refreshes

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 projects using hydraulic models and environmental data meeting traditional engineering standards with an emphasis on reduced environmental impact
- Reconciled databases of digitized data sets for Alameda County through a QA / QC process in ArcGIS for thousands of data points

EDUCATION:

Web Development: App Academy (February - July 2019)

BS Education: California State University, Chico; Civil Engineering

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