

Morgan Rector

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SKILLS

JavaScript, React, Redux, Node.js, Webpack, PostgreSQL, Ruby, Rails, OOP, TDD, HTML5, SQL, Git, MongoDB, Express, GitHub, AWS

PROJECTS

BayAreaTrails (Ruby on Rails, JavaScript, React, Redux, CSS3, Webpack, PostgreSQL)

[Live Site](#) | [Github](#)

- Designed React-Redux container and Redux selector patterns to create scalable and uni-directional front-end state management
- Managed creation of reviews CRUD through custom database operations using PostgreSQL, utilized the Redux unidirectional state management, and Active Record queries to directly manage data for form data and form submissions
- Created a custom search feature using database operations, SQL queries, and redux management based on user search query
- Implemented Rails backend with AWS S3 for media storage to maintain content security and maximize scalability

ViewFinder (JavaScript, React, Redux, Express.js, Node.js, MongoDB, CSS3, Webpack, PostgreSQL)

[Live Site](#) | [Github](#)

- Developed dynamic backend using custom routes to return specific standardized data in order to reverse load on frontend
- Led and collaborated with team of 4 engineers by utilizing efficient git and pull request workflow in order to minimize potential merge conflicts within frontend and backend
- Spearheaded design of visually appealing User Interface (UI) and enhance user experience (UX) in order to create intuitive and easy-to-navigate application
- Successfully integrated React Hooks in order to dynamically render data in frontend and create responsive design

Henry, the Humpback Whale Game (JavaScript, HTML5, CSS3, Webpack)

[Live Site](#) | [Github](#)

- Using OOP principles, designed and implemented dynamic collision detections among objects and responsive animations in order to increase player engagement and retention
- Engineered increased gaming complexity through the introduction of game changes as the game progresses that rely on OOP techniques and player interaction

EXPERIENCE

Stevenson School, *Director of Activities and Science Teacher*, Pebble Beach, California

Jul 2021 – Jun 2022

- Designed engaging curriculum and taught courses: Principles of Scientific Inquiry (chemistry, physics, and biology) and marine science, achieved a rate of 100% of students reporting that they “strongly recommend the course” (highest satisfaction rating)
- Oversaw the development of 50+ student research projects, with research topics such as Machine Learning and Pathfinding
- Served as sole coordinator for large community-wide events such as Carnival, Culture Fair, Prom, Community Service, and more, achieving 20% more student engagement at the events compared to the past ten years

OceansMicro, *Co-Founder, Assistant Director and Program Manager*, Santa Cruz, California

Oct 2020 – Oct 2022

- Co-founded science education nonprofit based in Santa Cruz County and delivered programs nationally and internationally
- Managed a team of 8 scientists, students, teachers, and college interns to develop engaging content and promote conservation

National Oceanic and Atmospheric Administration, *Teaching Assistant, Biology*, Monterey, California

Aug 2020 -Jul 2021

- Analyzed and input datasets weekly to the NOAA database containing thousands of data entries

Tesla, INC, *Operations Advisor and Sales Advisor*, Monterey, California

Nov 2020 – Jul 2021

- Built and grew a new Delivery Operations Team almost 100% from quarter to quarter while training new team members and managing the heaviest volume quarter in Tesla History at the time
- Organized, scheduled, and facilitated the delivery of over 1000 Tesla cars in Monterey and Santa Cruz Counties
- Received an overall customer satisfaction rating of 95% from customers to whom I delivered cars

EDUCATION

App Academy

San Francisco, California

Curriculum of Study in Web Development (JavaScript and Ruby on Rails)

October 2022; October 2022 – January 2023

California Polytechnic State University, San Luis Obispo

San Luis Obispo, California

Bachelor of Science in Psychology, Focus in Biological Sciences. Cum Laude Scholar, GPA 3.69

Class of 2019