

Erick Santos Jr

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SKILLS JavaScript, C++, Ruby, HTML, CSS, React, Redux, jQuery, Node, Express, MongoDB, Rails, SQL

PROJECTS

DNA Visualizer | (HTML, CSS, JavaScript)

[Live](#) | [GitHub](#)

A minimalist sequence visualizer with dynamic graphs and 3D rendering

- Designed custom 3D model using the Three.js library that updates in realtime with new user selections
- Extended default styling and functionality of the D3.js library with custom CSS to provide users with an informative UI for quick analysis of base frequencies
- Synchronized user selections to multiple graphical renderings through an object-oriented approach in JavaScript, which reduced load times and created more accurate and dynamic DRY code

Expand | (MongoDB, Express.js, React / Redux, Node.js)

[Live](#) | [GitHub](#)

An online learning platform that enhances student-instructor interactions

- Led frontend development using React components and CSS to build a responsive design with an engaging and intuitive interface accessible to students and instructors
- Incorporated client-side form validations to avoid unnecessary Axios requests and improve performance
- Leveraged AWS for receipt video storage, imposing a file size limit to reduce latency and storage cost

Peridot | (Ruby, Rails, JavaScript, React / Redux, PostgreSQL, AWS)

[Live](#) | [GitHub](#)

A single-page app inspired by Pinterest, where users can share ideas and be inspired

- Created custom modal framework with React component architecture for efficient form layouts
- Stored images on AWS for website speed optimization, reducing server load and permitting scalability
- Ensured user privacy and autonomy through frontend and backend authentication measures and React Router, only allowing logged-in users to access and make changes to their content

EXPERIENCE

Mentor | App Academy

San Francisco, CA

Oct 2020 - Dec 2020

- Provide successful strategies and mentorship to assist students in understanding full stack web development concepts in Ruby, SQL, Rails, JavaScript, React
- Proactively monitor the community for questions about the Full Stack Curriculum and provide prompt feedback to guide individuals in writing algorithms, problem solving, debugging and practicing good object-oriented technique

Computer Science Tutor | Ohlone Community College

Newark, CA

Jan 2019 - May 2019

- Tutored students in live classroom lectures and lab for Introductory Programming in C++ course
- Led 1-on-1 and group study sessions for 35-40 computer science students on coursework in object-oriented programming, data structures and algorithms, and C++

EDUCATION

App Academy - Rigorous 1000-hour software development course with < 3% acceptance rate, 2020

University of California, Davis - BS Biological Sciences, Art Studio minor, 2017