Danielle Lei

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SKILLS

React, Redux, Ruby, Rails, Javascript, HTML, CSS, SQL, FLASK, Sequelize, Python, Git, AWS, C++, Docker, Linus

PROJECTS

Coffee Or Tea (Flask, ReactJS)   live | github

A Starbucks clone where users order drinks as well as posting images and sharing recipes.
- Designed a custom SQL database and queries to complete the entire ordering process.
- Incorporated React-Redux container and Redux selector patterns to architect highly scalable and uni-directional front-end state management.

Tree House BnB (Sequelize, ReactJS)   live | github

Airbnb-cloned web application for users to post their spots and make booking with spots that are owned by another user.
- Harnessed the unidirectional state management of Redux to simplify React components and directly manage data for form inputs and form submissions.
- Managed scheduling a booking CRUD through custom transactional database operations using Active Record and PostgreSQL

Tinterest (Flask, ReactJS)   live | github

Pinterest clone where users can save pins into customized boards and create pins to share with other users.
- Utilized Redux architecture's unidirectional data flow with React for predictable state and reliable DOM rendering.
- Utilized AWS S3 and the Paperclip gem to implement user image uploads reducing server load and allowing for scalability of image services.

EXPERIENCE

Bioinformatics Lab internship

UCLA   Sep 2020 – Sep 2021
- Participated in bioinformatic projects where I performed data analysis and provided different types of data visualization.
- Performed data analyzation using Pandas and Numpy packages in Python language; performed feature selection and prediction using multiple machine learning tools such as Random Forest, Logistic Regression and Support Vector Classifier.
- Capable of handling large dataset and performing statistical analysis in python language; finished weekly tasks on time; creative in designing programs on performing data analysis and handling data from different bioinformatic APIs; fast learner and picked up new skills from every task.

Supplemental Instruction (SI) Leader and Tutor for STEM Courses

East Los Angeles College   Aug 2015 - Jun 2016
- Facilitated 5 study sessions to help students succeed in Pre-calculus weekly, developed effective methodology to help students master course materials and build up problem-solving skills
- Communicated with the faculty weekly on students' progress and their current challenges; Designed and created study plans for students
- Mentored 20 students on college-level math course and shared effective study skills; all of my students were satisfied with improvement outcomes and received desirable grades for the course

EDUCATION

Full-stack Software Engineer - *App Academy | Fall 2022*
Bachelor of Science | Molecular, Cell and Developmental Biology major, Bioinformatics minor - *UCLA | 2022*