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Josh Alamillo

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Technical Skills

Front-End: JavaScript, React, Webpack, jQuery, Redux, Jest, Mocha, Chai
Back-End: Node/Express, Python, AWS, CircleCI, PostgreSQL, MongoDB, Docker

Software Engineering Projects

Cheerdango

A webpage mimicking the display of a movie page on Fandango

- Engineered a PostgreSQL schema to enable more fluid construction of the client side components using well-organized mock data
- Integrated 4 group members' components into a single-page application via proxy server development and deployed the combined product using AWS Beanstalk
- Achieved over 90% unit test coverage using Jest to ensure code consistency and reliability
- Implemented CircleCI to facilitate an efficient Git workflow among group members

SilverSpoon

Optimization of a server for the reservations component of an Open Table-like webpage

- Refactored and indexed a Postgres database in order to improve the query time for a GET request from 2000 to 0.5 ms
- Implemented a Redis cache during Artillery stress testing to enable a server to handle 1000 requests per second with minimal latency
- Ensured database population efficiency by developing scripts that seeded Postgres with 10 million restaurants and reservations in under 10 minutes

Dancer Data Retriever

A hybrid data visualization/storage application for competitive players of a popular video game

- Parsed data from 1600 HTML pages retrieved from a game data storage website and organized it into a user-friendly interface using MongoDB, Express, and React
- Applied efficient sorting algorithms, Promises and data retrieval mechanisms to ensure enjoyable UX

Work Experience

Genentech, Inc, *Intern* 2017

- Quantified the effects of harmful product impurities using a stress-testing model
- Optimized existing standard operating procedures for characterizing target molecules

University Of California, Davis, *Research Assistant* 2016

- Automated data generation and analysis during chemical research
- Trained incoming researchers in the required research methods and concepts

Education

Hack Reactor, *Advanced Software Engineering Immersive Program* 2018

Rice University via Coursera: Fundamentals of Computing 2017

University Of California, Davis, *M.S. in Chemistry* 2016