

Rock Zhou

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rockzhou.com

Skills

- Javascript, Python, C++, Scheme, MATLAB
- React, Redux, Node, MongoDB, PostgreSQL, Docker, scikit-learn, NumPy, Pandas

Experience

ConsenSys Fullstack Developer

Jan 2019 - Apr 2019

- Refactored and built out clean architecture over existing MVC API, allowing for framework-agnostic business logic that increased developer efficiency by up to 30%
- Reduced test execution time by up to 94% by stubbing database calls and converting unnecessary integration tests into unit tests
- Created GraphQL route and resolvers over existing REST API, allowing for decreased coupling between frontend and backend development
- Increased frontend React test coverage with Jest snapshot and pixel match tests to ensure bugs were caught and fixed before deploy

ConsenSys Frontend Developer

May 2018 - Aug 2018

- Built out application for tokenizing real estate on Ethereum, using Web3JS for chain interactions
- Constructed reusable and extensible React components such as form input, dropdown menu, and a ChartJS wrapper.
- Optimized Redux integration with StreamJS, increasing speed of notification reception by 50%

Projects

Music Genre Classifier <https://github.com/rocky1638/music-genre-analysis>

Apr 2019

- Constructed and trained a neural network using TensorFlow and Keras to classify the genre of any specified song in MP3 format
- Optimized hyperparameters such as batch size, learning rate, and number of neurons using grid search and scikit-learn
- Extracted and constructed input feature vectors from music metadata using Librosa

Movie Review Analyzer <https://movie-review-reviewer.herokuapp.com/>

Feb 2019

- Trained logistic regression classifier with feature-vectorized movie reviews using scikit-learn and NumPy, achieving sentiment classification accuracy > 95%
- Implemented Flask API and frontend with user feedback, to allow for online learning and constant improvement of the model

Education

University of Waterloo Candidate for Bachelor's of Computer Science

2017-2022