Rock Zhou

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Skills

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

Experience

ConsenSys Fullstack Developer   *Jan 2019 - Apr 2019*

- Built out clean architecture over existing MVC API, allowing for framework-agnostic business logic and increasing developer efficiency by **~30%**
- Reduced test execution time by **up to 95%** by stubbing database calls and converting unnecessary integration tests into unit tests
- Created **GraphQL resolvers** over existing REST API, decoupling frontend and backend workflows
- Improved frontend test coverage with Jest snapshot and pixel-match tests to ensure bug-free code

ConsenSys Frontend Developer   *May 2018 - Aug 2018*

- Built out application for tokenizing real estate on Ethereum, using **Web3JS** for on-chain interactions
- Constructed extensible **React** components such as dropdown menus 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*

- Designed and trained a neural network using **TensorFlow/Keras** to classify the genre of any song
- Optimized hyperparameters such as learning rate and number of neurons using **GridSearchCV**
- 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** with **React** frontend and user feedback form, to allow for online learning

Sorcery a card game   *Dec 2018*

- Created a card game inspired by Hearthstone and Magic in **C++**
- Made use of decorator and factory patterns to optimize code reuse and maintainability

Education

University of Waterloo Candidate for Bachelor's of Computer Science   *2017-2022*