github.com/teriteriteri
chaohuang616.com

Chao Huang

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Education

Bachelor of Science in Computer Science and Engineering   Expected Mar 2019

University of California, San Diego

Work Experience

Software Engineering Intern   (React-Redux, i18n, Jenkins, REST, i18n)   Jun 2018 – Sep 2018

IBM, San Jose, CA

- Researched, implemented internationalization for the UI of IBM InfoSphere DataStage (a React-app), provided multi-language support for global audiences, using react-intl library
- Analyzed RESTful API response to resolve consistency issues when migrating the previous desktop product to hybrid cloud as a web-based application
- Eliminated 500+ node module vulnerabilities while solving project package dependency conflicts
- Utilized automated Jenkins tests for continuous integration and continuous delivery

Projects

ShopEasy   (Full Stack, MongoDB, Express, AngularJS, Node.js)   Mar 2018 – May 2018

- Designed a scalable, interactive MEAN stack E-commerce web application
- Built login, signup, and authentication features with Angular auth-guard for route protection
- Stored bcrypt encrypted data and user information on a cloud-hosted MongoDB with mLab plugin
- Implemented search functionality using Algolia, integrated Stripe into payment API

MovieNow   (MapReduce, Hadoop, Docker)   Jan 2018 – Mar 2018

- Developed a movie recommender system that recommends similar movies for user, using Netflix prize dataset from Kaggle.
- Generated co-occurrence matrix to represent movie relationships based on item collaborative filtering
- Ran map reduce jobs to compute co-occurrence matrix, user rating matrix, and multiple the matrices to obtain the recommendation list

Vehicle Image Detection   (Computer Vision, Object Detection, Python)   Sep 2017 – Dec 2017

- Built an object detection model in Python to identify vehicle objects in target image
- Preprocessed image by denoising with Gaussian Blurring, contrast enhancement for better prediction
- Leveraged the imageAI library to classify object, generate various size of patches around subdivision of image centroid for classification

Couple Tones   (Android Studio, Google Play Services, Firebase, Java)   Sep 2016 – Dec 2016

- Android Mobile application that notifies user of their partner's activities with user customized ringtone
- Spearheaded development of key features including save user's favorite locations, activity push notification with Google Maps API
- Achieved continuous user location tracking using Firebase and Google Cloud Messaging API

Technical Skills

- Languages: Java, C/C++, Python, JavaScript
- Database Systems: MS SQL Server, PostgreSQL, MongoDB
- Frameworks/Tools: HTML, CSS, React.js, Node.js, AngularJS, Hadoop, Docker