Jitao Zhang

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EDUCATION

University of California, Irvine **Irvine, California**
M.S. in Networked Systems GPA: 4.00/4.00 *Sep. 2018 - Present*
Relevant Courses: Computer Networks, Machine Learning, Analyze Programming Language

Beijing University of Posts and Telecommunications **Beijing, China**
B.E. in Information Engineering Major GPA: 3.80/4.00 *Sep. 2014 - Jun. 2018*
Relevant Courses: Data Structures, Database Technology and Application, Micro-processor and Interface Technology, Computer Networks, Java Programming, Pattern Recognition, C++ Programming, Linux Operating System

Skills

- Programming: JavaScript, Java, C++, HTML/CSS, NodeJS, Python
- Frameworks: React, Vue, ES6, Express, Webpack, Django, D3.js, Keras, Tensorflow
- Database: MongoDB, MySQL, Redis
- Dev & Deploy: Git, Docker, Nginx, AWS, Google Cloud, JIRA

EXPERIENCE

NewBanker Corp. **Beijing, China**
Software Engineer Intern *Jul. 2017 - Apr. 2018*

- Built News Feed in FOF(Fund of Funds) system dashboard and integrated stock, fund and followers information to help users better strategize investments.
- Used Chart.js and G2 to visualize funds distribution, key infos and funds trends in different time spans with different units.
- Created two global Vue components: work-info-tips and work-create-form which are used in 8 modules (out of 11) combined in the system for maintainability and reusability.
- Decreased 30% time in build process and minimized 40% size of the bundles in production mode than before by importing Webpack plugins including CommonsChuncksPlugin, DllPlugin, etc.
- Implemented a multihost Hyperledger Fabric first-network running with a 4 peers - 2 organizations transaction logic and deployed in Google Cloud.

PROJECTS

Mock Server Dec. 2017 - Apr. 2018
MEVN (MongoDB, Express, Vue, NodeJS) web application to generate configurable data for speeding up front end development

- Used Vue, Vue-router, Vuex, Element UI to implement frontend for helping user easily customize RESTful API in real-time (including URL, parameter, query, methods, mainly response data, etc.).
- Implemented a Vue JSON editor Component to design nested response data structure stored in MongoDB and integrated faker.js to support 100+ various data type for flexibility and scalability.
- Developed a logical user permission module to support team projects development and API control.
- Dockerized the code and made it easy to deploy in local or in cloud.

Caltech101 Retrieval System Feb. 2018 – Jun. 2018
Image retrieval system based on CNN and Caltech101 datasets

- Utilized Keras API to build and fine-tune VGG19 network as the core of Django backend with 99.87% accuracy.
- Extracted 8000+ images' features stored in MongoDB as bson type with other images' key infos for query.
- Used Vue and Element UI for uploading query picture, set click events to send query information via Vue-Resource and displayed all the query results from Django backend.
- Reduced range of (29% - 88%) query time in 4000 trials with nearly same MAP (Mean Average Precision) by implementing binary hash code algorithm.

Slender Link May. 2017 – Jul. 2017
MERN (MongoDB, Express, React, NodeJS) web application to shorten, manage and analyze URL

- Implemented URL shortener service for supporting customized short URL, setting available time and public/password options for accessing.
- Used D3.js to visualize user distribution information (country, platform, browser, etc.) and click rates of specific URL over different time intervals (month, day, hour).
- Deployed app using Docker, Redis as the cache layer and Nginx as a reverse proxy server and load balancer.