Ziyuan Dong

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Education

University of Southern California, Los Angeles, US 2018 – 2020

M.S. in Computer Science

Nankai University, Tianjin, China 2014 – 2018

B.S. in Computer Science

Employment

Alibaba Group, Hangzhou, China May 2020 – Aug 2020

Software Development Engineer Intern

- Developed an Ali Mini App with the features of server side rendering and compiling at runtime by using Rax(an Ali progressive React-compatible JS framework)
- Participate in the development of advanced components for Rax, such as Gesture View, Animation based on bindingx and Advanced Slide
- Added two features to Rax IDE extensions: quick conversion of components from Rax to React and visualization of performance within an entire Mini App cycle

Care Labs, Los Angeles Sep 2019 – Dec 2019

Web Development Engineer Intern

- Built an official website with MVC pattern by using Angular7 and Node.js and Redis
- Designed RESTful api on Node.js and used libuv to handle heavy I/O requests
- Developed an Android App with features of dynamic layouts, autocomplete suggestions and LRUCache
- Used GitLabs and Docker to implement CI/CD Pipeline

Project

Visual Analysis of the COVID-19 Cases within LA County Mar 2020 – Jun 2020

- Proposed a hybrid model-and-data-driven Bayesian approach to measure the infection risk based on SIR epidemic model, and simulated the effectiveness by using Networkx
- Used ECharts to render interactive plots about the epidemic data
- Created a website using Flask to scrap raw data, display and reloaded the plots automatically

Classification and Statistical Analysis of the Mobile App Reviews Jun 2019 – Aug 2019

- Annotated reviews of mobile applications manually based on software quality that these reviews involved
- Cleaned the raw corpus with NLTK, and vectorized the text with the methods of Word2vec
- Constructed an SVM model with SKlearn to classify user reviews into the corresponding category of software quality, and optimized the hyper-parameters to keep the F1 score > 0.9

Development of the Unified Code Counter Software (Java Version) Jan 2019 – Apr 2019

- Implemented the functions of physical/logical SLOC counting based on the SEI code-counting framework
- Tested language-specific features with JUnit, and generated bug reports automatically
- Built the user interface with Java Swing

Skills

- **Languages:** Python, Java, C/C++, Javascript/Typescript, SQL
- **Libraries:** Angular, Node.js, Android SDK, Sklearn, Flask, React
- **Platforms:** MySQL, AWS, GitLab, Linux, Redis, Docker