

ZIYUAN DONG

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🎓 EDUCATION

University of Southern California , Los Angeles, US	2019 – 2021
M.S. in Computer Science	GPA: 3.8
Nankai University , Tianjin, China	2014 – 2018
B.S. in Computer Science	GPA: 3.7

💼 EMPLOYMENT

Alibaba Group , Hangzhou, China	May 2020 – Dec 2020
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Java Development Intern

- Developed a MiniApp of traffic information query by using Rax(Ali progressive React framework) with high-performance features of compiling at runtime and server-side rendering
- Implemented self-adaptive load balancing and persistent storage to handle more than 10 millions queries based on Dubbo(Microservices Framework) and RocketMQ(Messaging and streaming platform)
- Participate in the development of advanced components for Rax including Canvas, Countdown, Slider and Swiper, and added the function of quickly creating components to Rax IDE extensions

Care Labs , Los Angeles	May 2019 – Aug 2019
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Web Development Intern

- Built the official website with MVC pattern by using React, Node.js and MongoDB
- Design and implement RESTful web services API under the agile strategy
- Ported the website to Android/IOS platform by using React Native
- Used GitLabs and Docker to implement CI/CD pipeline, and used Git to implemented distributed control

⚙️ PROJECT

Visual Analysis of the COVID-19 Cases within LA County	Mar 2020 – Jun 2020
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- 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 Python package Networkx
- Used Scrapy and Pandas to collect and process data on the backend, and used Echarts to render interactive and dynamic plots of the result on the frontend
- Deployed a Django server onto AWS to automate the data crawling, data processing, and push results to clients

Classification and Statistical Analysis of the Mobile App Reviews	Jun 2019 – Aug 2019
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- 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 Toolset (Java Version)	Jan 2019 – Apr 2019
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- Implemented the function of counting and differencing the Java source code by using Java Spring Boot
- Completed integration test with GoogleTest, and wrote the compiler optimization guide for user manual
- Developed the User Interface by using GUI

🔧 SKILLS

- **Languages:** Python, Java, C++, Javascript/Typescript, SQL
- **Libraries:** Angular, React, Spring Boot, Node.js, Android SDK, Sklearn, Django

- **Platforms:** AWS, GitLab, Linux, MongoDB, Docker