

Yikai(Ricky) Zhu

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EDUCATION

Northeastern University (*Master of Science in Computer Engineering*)

Sep 2018 - Jun 2020

Relevant Courses: OOD, Algorithms, Network Structures & Cloud Computing

GPA: 3.9/4.0

Tongji University (*Bachelor of Science in Information System*)

Sep 2014 - Jun 2018

Relevant Courses: Database Management, Data Structures, Introduction to Java

GPA: 3.5/4.0

COMPUTER SKILLS

- **Programming Languages:** Java (Proficient), JavaScript (Intermediate), Python, C/C++, Go, SQL
- **Database:** SQL: MySQL, PostgreSQL, NoSQL: MongoDB, Firebase
- **Back-end:** NodeJS, Spring, Spring Boot, Spring Cloud, Maveb, RabbitMQ, Redis
- **Development and Deployment:** Git, Docker, Linux/Unix, npm, IOS, Jenkins, SVN, Postman, ReactJS

PROFESSIONAL EXPERIENCE

Software Engineer Intern @ UniDT Technology, Shanghai, China

May 2019 - Sep 2019

Integration and Development - *integrate company's services into unified java version and common platform*

- Developed a financial application based on Java Spring Boot, using several methods to solve High concurrency and High flow, handling 100+ transactions per second with an availability rate of 98.77%
- Redesign a Python-based project with Java and used MongoDB as database to handle multi-threaded requests and reduce response time by 30%
- Participated in company's product OpenAPI platform based on Spring Cloud to develop a fully-distributed system, worked on calling Tencent Native Pay and Alipay APIs for payment module, and deployed them on Spring Cloud gateway

HeBao Credit Loan - *A Java application based on Spring Boot for China Unicom*

- Worked on repayment part code, designed and created Database and API interface, completed whole testing levels including Unit Testing, Integration Testing and System Testing
- Took use of SFTP and SAE encryption to realize the function of bulk upload and download files, completed timed read and write function through Spring Boot
- Built CI/CD pipelines on Tencent Cloud Server using Jenkins and Docker, helped team to deploy over 20 times in a day, recorded and arranged test version and interface documents

Software Engineer Intern @ JunLing Health, Shanghai, China

Mar 2018 - Jun 2018

- Built a requesting and ordering system for E-insurance based on Spring Framework and MySQL Database to allow customers to browse and select different insurance plans
- Designed, architected and wrote the Front-end of our eCommerce application using ReactJS with 1,200 reusable components
- Worked with agile team of 8 people to migrate legacy company website into ReactJS website and WeChat Applet

SELECTED PROJECTS

Burger Builder - *A Single-Page App to build your own burger with checkout function, using React-Redux, ES6 and JavaScript*

- Developed new user-facing features using ReactJS, JavaScript including DOM manipulation
- Optimized user experience using JavaScript new function and React hooks, leading to an improvement of 93% for page loading efficiency
- Used Redux, React-Redux and Thunk to manage the whole project's data state so that the code has a better extensibility for future features and easier to read and test, the structure becomes more streamline

Personal Project Management - *A full stack project using Spring Boot and ReactJS*

- Created 30+ RESTful API with Spring Boot, managed version control with maven and secured it with Spring Security and JWT web token
- Designed and implemented a React architecture to construct a user-friendly website interface, consumed RESTful API with React/Redux and JSON, deployed it into personal cloud service using SSH and GIT

Computer Science Coding BootCamp - *Course assignments and some personal projects*

- Developed an online game with NodeJS and expressJS, allowing multiple users with different IP addresses to play at same time, deployed it into AWS with ElasticBeanstalk
- Analyzed a big dataset with 5000+ data using Python, Pandas, Numpy and got a good model with 0.93 AUC