

Ruby CHEN

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SUMMARY

Seeking a full-time software development engineer, front end, full stack and backend position.

Solid software engineer with strong programming and analytical skills. Has a wide range of **software development internships and project experience**, including full-stack, web application development and recommendation system with **React, Vue, Angular, JAVA, PYTHON, MYSQL, MongoDB, Django, Flask and Spring**. 2+ years of programming experience

EDUCATION

University of Southern California, Los Angeles, CA

Jan 2020 – May 2022

Master of Science, Applied Data Science

Beijing Jiaotong University, Beijing, China

Sep 2015 – Jun 2019

Bachelor of Science, Information System and Information Management

PROFESSIONAL EXPERIENCE

Vision X (React, Django, D3.js, MySQL, AWS)

May 2021 – Present

Software Development Engineer Intern (Los Angeles, CA)

- Developed web application for the North America Smart Plant Home Planting by constructing robust **API** based on Python **Django Framework**.
- Constructed UI components in the frontend using **HTML, CSS, JavaScript** within **React** for responsive design and applied **D3.js** to animate product monthly usage table, visualize main functions of the website.
- Implemented user registration, login, and online shopping features with Amazon Relational Database Service (**RDS**) to store user and shopping data. Embedded **MySQL** queries in Django to facilitate searching, adding, updating, and deleting records.
- Embed plant diseases recognition and expert chatting room function into the website page with **Django** which reduce the cost of human reviews by \$5k per week.

Shenzhou Digital (Vue, Java Spring Boot, Mongo dB)

May 2019 – Nov 2019

Software Development Engineer Intern

- Participated in building interactive user interfaces such as website homepage, payment page, and user addresses input page of payment system with **Vue framework**.
- Implemented end-to-end tests for interface features by using **Spring MVC, Spring MyBatis**, and **Spring Boot framework** to enable the front end client to access server and database in the backend.
- Built non-relational database **MongoDB** to store and capture data then create MyPage function.
- Improved the performance of search function based on **NLP** techniques with Word2vec to extract user input text contents and automated the responses accordingly, which increased the accuracy to 99.1%.

PROJECTS

AMC Ticket Search Platform (Python, React, JavaScript, Flask, MySQL)

May 2021 – Sep 2021

- Created an interactive web page based on **full stack** enabling users to search tickets, view recommended Movies, view movie details, and add them to Wishlist.
- Implemented fronted websites with **React framework** which adopted **responsive** design approach and implemented sever side with **Flask**.
- Designed and implemented a relational database (**MySQL**) schema to persist, process events and user behavioral data.
- Deployed server side to **AWS EC2** to handle 100 queries per second tested by **Apache JMeter**.

Airline Office Administration System (Java, TypeScript, Angular, Spring, Android app)

Jan 2021 - May 2021

- Built the administrator login feature and ticket query feature with **RESTful APIs** enabling both administrator and customers to query ticket and real-time flight information with **JAVA Spring framework**.
- Constructed fronted **responsive** web pages supporting different devices using **TypeScript** language and **Angular framework**.
- Developed an Android mobile app in **JAVA** which achieves the same features and handle networking operations with **Volley** framework.
- Implemented frontend websites with **Angular**, which adopted responsive design approach and fit in mobile with **Bootstrap**.

Weenix Operating System Development (C, UNIX Commands, Kernel)

Aug2020 – Nov 2020

- Created the original processes and threads to simulate and test the operating system with **C language**.
- Implemented a virtual file system to enable file naming, file protection, file abstraction API, **kernel** data structures, memory mapping files, and sharing.
- Developed virtual memory to support the association of text segment, data segment, and user program address via mapping and test in **UNIX command**.

TECHNICAL STRENGTHS

- **Programming Languages:** Java, Python, C, SQL, JavaScript, TypeScript, HTML, CSS, Spark, Unix Commands
- **Frameworks:** React, Vue, Angular, Bootstrap, Spring Boot, Django, Flask, Volley, MapReduce
- **Databases:** relational database (MySQL) and NoSQL databases (MongoDB)
- **Tools:** Tableau, AWS, Microsoft Access, Visual Studio, PyCharm, Eclipse, Process On, Excel