

Yuanyuan Zhu

SUMMER SDE INTERN

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WORK EXPERIENCE

Wish-Shopping Made Fun!

May 2018 - Aug 2018

INTERN, FULL-STACK WEB DEVELOPER IN WISHCHAIN TEAM, USING PYTHON, JAVASCRIPT, AWS, MONGODB

- Worked closely with PM team to develop internal systems and APIs to improve efficiency of Wish's Chain and Post system
- Built a sales data query system to reduce about 50% query time by using job scheduler(**Tron**) to config a cron job, and consume it through a back-end service with Message Queue(**AWS SQS**)to decouple heavyweight processing
- Detected abnormal sales records through analyzing logs with cloud data service(**Treasure Data**) and designed a buyer manage tools to mark malicious buyer to the blocked list simultaneously
- Optimized product upload function in supplier system by developing a **bulk upload** API, reducing processing time by 50%, and allow suppliers to upload 10 times number of products than before at one time by a .csv file
- Wrote python scripts to generate automated tools for buyer teams, such as generating daily reports to monitor inbound and outbound rate data, tools for finding and sorting top suppliers among more than 20 millions products in **MongoDB**

Smart Medical Informatics Learning and Evaluation Lab

Aug 2016 - Oct 2016

RESEARCH ASSISTANT, USING MATLAB, C TO IMPLEMENT SEGMENTATION ALGORITHM

- Developed image processing program to process infrared data of diabetic foot ulcers, helping doctors at two clinic sites in Miami to gain more accurate diagnoses(30% higher)
- Implemented segmentation program based on machine learning algorithms for measurement of wound's size of lower extremity ulcers to help analyze wound healing tendency(**MATLAB / C**), verified by infrared data(achieved accuracy of 92.0%)

SKILLS

Programming	Java, Python, JavaScript, C/C++, JAVA, PHP, HTML/CSS
Web	Tornado, Angular, Vue, Node.js, JQuery, Bootstrap, Spring MVC, Spring Boot
Tools	MongoDB, MySQL, Treasure Data, Git, UNIX/Linux, AWS(EC2/S3/SQS), ELK stack, Docker, Android

PROJECTS

Houses Rental Web Application(Java, Spring Boot, MySQL, JQuery, ElasticSearch)

TEAM PROJECT

- Developed a website allowing users to search for houses' information, utilizing **JQuery/Bootstrap/Thymeleaf** and a back-end management system enables administrators to manage houses's information with **Spring** framework
- Utilized **MySQL /Spring Data JPA** to store data and **AWS S3** to store houses' pictures
- Implemented unit test with **JUnit** and **H2** database, using **Log4j** as logging mechanism
- Adopted **Spring Security** for authentication and authorization to validate administrator and common user

Web Application for Movie Screen Sharing(Javascript, Node.js, MongoDB, JQuery)

PERSONAL PROJECT

- Developed a database-backed web application for movie blog utilizing **RESTful API**, allowing users write blog or comment on others' blog
- Built responsive front-end with **Bootstrap/JQuery** and back-end with **MongoDB/Express**
- Managed the user authentication and permission(**PassportJs**) for different roles and operations

Stock Quote Search Web/Mobile Application(Java, Android, Angular, Bootstrap, AWS)

PERSONAL PROJECT

- Built a web and a mobile (**Android**) application enabling users to search stock quote, manage favorite stocks and displays stock information using **HighChart/HighStock**
- Implemented the MVC backend with **Express.js**, designed **RESTful APIs** to retrieve real-time stock data and support auto-refresh
- Added social networking features using Facebook SDK, deploying node server on **AWS Elastic Beanstalk**

EDUCATION

University of Southern California, Los Angeles, CA

Aug 2017 - Dec 2019

M.S. IN COMPUTER SCIENCE, GPA: 3.75

Relevant Courses: *Analysis of Algorithms; Web Technology; DataBase System; Foudations of Artificial Intelligence; Introduction to Programming System Design; Computer Networks*

Zhejiang University, Hangzhou, China

Aug 2013 - May 2017

B.S IN INFORMATION SCIENCE AND ENGINEERING, GPA: 3.89

Relevant Courses: *Data Structure; Operating System; Object-Oriented Programming; Introduction to Computer Networks*

North Carolina State University, Raleigh, NC

Jun 2016 - Aug 2016

GEAR PROGRAM STUDENT, GPA: 4.0