Yuzhu Zhang

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OBJECTIVE: Software Engineer, new grad, full-time position

EDUCATION

Clemson University, Clemson, SC	Dec. 2018
Master of Computer Science	
University of Science and Technology of China, Suzhou, China	Jul. 2020
Master of Software Engineering	
Shandong University, Jinan, China	Jul. 2016
Bachelor of Digital Media Technology	

EXPERIENCE

Software Engineer, Intern   Bytedance Network Technology Co., Ltd(China)   May. 2018 - Aug. 2018

Employee self-service Web Application by Python

- Implemented payroll accounting feature by python and Django framework, optimized the performance using Redis as cache, Redis rq, and database master-slave replication method, shortened the payroll accounting process from ten days to one day
- Refactored the pay plan matching feature from hard code to user-configurable mode and improved the system flexibility and scalability
- Imported pytest framework for the salary management microservice of this web application and improved the unit test coverage from 40% to 46%
- Implemented exporting offer information feature in an asynchronous way using Redis rq, improved system efficiency in handling the exporting requests.

Software Engineer, Intern   Guoyun Data Technology Co., Ltd Intern(China)   Mar. 2017 - Jun. 2017

Big Data Analysis Java Web Application

- Maintained and Optimized SQL Grammar Verification Machine using Java and Spring framework
- Developed a Row-Level Permission feature for this application using and Spring framework

SKILLS

- Languages: **Java, Python**, Html/CSS, JavaScript, C, C++, PHP
- Frameworks: **Django, Spring，** SpringMVC, pytest, Struts, Hibernate, Mybatis, BootStrap
- Tools: **MySQL**, **Redis**, Git, Linux, Docker, Maven, Tomcat, JSON
- Others: TCP/IP, HTTP

ACADEMIC PROJECT

Expert Platform **Website**

- Developed Expert Platform website to provide project cooperation for experts and corporate users using Java, SpringMVC + Spring + Mybatis framework and MySQL
- Implemented diverse features including registration, message management, project publish and search, personal information update and permission control

Golden Finger **Children Handwork Website**

- Developed a website to provide online courses on children's crafts using Java, **S**pring + Struts + Hibernate frameworks and MySQL
- Built several features including registration, course publish, search, reservation and cancellation, permission control
- Developed front-end pages with HTML/CSS, JavaScript and BootStrap framework

Java MVC framework

- Implemented an MVC framework following the Model-View-Controller design pattern principle
- Built several features including controller, interceptor, DAO and IoC Container using Java

Optimization of XV6 Operating System

- Added share memory feature into XV6 system by C and improved the efficiency of
- Implemented kernel thread feature
- Developed a file system consistency checker and modified existing XV6 file system to prevent data corruption