Zijun Zhou

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Sichuan University   **Sept. 2015-June 2019**

- B.E. in Computer Science and Technology
- GPA:82.38/100   Overall GPA of the last two years: 86.73/100

PUBLICATIONS

- Modeling of Ball Screw: An Overview. Gengjia Chen, Niaoqing Hu, **Zijun Zhou**, Guoji Shen. CSVE 2019, Xi'an, China
- Intelligent Extraction Method of Full Life Health Indicator of Rolling Bearing Based on One-dimensional Deep Convolution Neural Network and Principle Component Analysis. Peng Luo, Niaoqing Hu, Guoji Shen, Zhe Cheng, **Zijun Zhou**. Journal of Vibration and Shock.bay
- Intelligent Diagnosis of Planetary Gear Fault Based on Continuous Vibration Separation and Convolutional Neural Networks. Lun Zhang, Niaoqing Hu, **Zijun Zhou**. IAI 2020

WORK & RESEARCH EXPERIENCE

HUAWEI   **Title: General Software Engineer**   **01/2020-Present**

- Utilized API Designer to design RESTful APIs, constructed relevant Spring Cloud projects, and generated **Swagger** documentation pages
- Used Multi-threaded programming(**double-checked locking**, **CAS**, thread pool..) to design and implement **AtlasTaskDispatch** microservice to serve thousands of concurrent requests, create pipelines in **Jenkins** and generate relevant analysis, and stored pipeline info in **Redis**
- Used Load Balancing Algorithms to design **AtlasPerformanceService** to connect the machine with the lowest load to AtlasTaskDispatch
- To overcome the single point of failure in Redis, performance bottleneck and storage limit, configured **Redis clusters**, and replaced **Jedis** with **Redisson** which has implementations of more data structures and simplifies locks and synchronization in high concurrency scenarios
- Developed several **Jenkins plugins** to improve efficiency, including **CheckBuildToolsPlugin**, **MooseFSPlugin** and **ChatForJenkins**
- Used **Spring AOP** to create **HttpUtils** class to obtain detailed records of each request and response

Evergrande Group   **Title: Full Stack Developer**   **03/2019-01/2020**

- Designed **SPU**(Standardized Product Unit) and **SKU**(Stock Keeping Unit) for E-commerce systems to store different kinds of products
- Utilized **Vue CLI** and **WebPack** to construct Vue.js projects for management services, **Element UI** and **Vuetify** components to create user-friendly pages, employed **Promise** to simplify interactions with back-end clusters, and solved **Cross-Domain** problem by **CORS**
- Used **Spring Data**, **Spring Boot**, **Spring Cloud**(**Zuul**, **Eureka**, **Ribbon, FeignClients, Hystrix**) to design the server-side **RESTful** APIs for the company's E-commerce systems including login services(**JWT authentication**), search, item and management services
- Utilized **Spring Data ES** to add documents to the **Elasticsearch** indices to collect, analyze and visualize search results
- Combined **NGINX** with **Thymeleaf** Template and Engine to turn pages into static ones to adapt to high concurrency scenarios
- Configured **FastDFS** to solve the problem of managing 1M+ files, and avoid single point of failure
- Employed **Redis** to lower the latency**,** and used **Kafka** as a messaging queue to implement data synchronization between Redis and MySql
- Used **Quartz** and **CRON** expression to schedule jobs which send emails to users, and StringBuilder to format the HTML email dynamically

NUDT, The Lab of China's Supercomputer development   **Title: Research Assistant**   **12/2018-01/2020**

- Worked with the 1-D deep convolutional neural network(**1DDCNN**)
- Worked on **face recognition** based on the **Multi-feature fusion of convolutional neural networks** to improve the speed of recognition

Huadi Technology Company   **Title: Full Stack Developer**   **01/2018-03/2019**

- Employed **Vant UI, We UI** based on Vue.js to design **WeChat** apps and **mobile** webpages to help users recycle
- Used **LayUI** and **Vuetify** components to construct user-friendly Vue.js pages for admins to manage items and orders
- Deployed **Docker Containers** with the help of **Kubernetes** to provide users with more stable service
- Used **Spring Boot**, **Spring Cloud(Eureka, Zuul, Ribbon and Hystrix)**, and **MyBatis** on **Oracle** database to implement server-side **RESTful** APIs, and refactored SQL statements to improve performance by 30%
- Utilized **Spring Security** for access control and other administrative responsibilities, and added **RocketMQ** as a **messaging queue**
- Used **jBPM workflow engine** to implement the approval process, and employed **Apache POI** to extract data from **oracle** to **excel files**
- Used **Spring Data JPA** instead of **MyBatis** to save 10% of development time in the order service

PROJECT EXPERIENCE

Personal Website(Project, Blog Display and Management System)

- Employed Vue CLI to construct Vue.js projects including portal pages and management pages, and rendered every menu item and its sub-menus **recursively** according to the metadata of each route in the VueRouter
- Configured **Selenium WebDriver Docker Container** in **CentOs,** created PullData microservice, combined WebDriver with **Quartz** to schedule a timed task which fetches information from websites once a day, and transformed JSON Strings into **byte arrays** to store in Redis
- Configured **Elasticsearch Docker Container,** used **Spring Data ES** APIs to create indices, types, and bound listeners to RabbitMQ exchanges to implement data synchronization between ES and MySql
- Deployed 'Let's Encrypt' certificates in the Linux Server to automatically enable **HTTPS** on my website

Hospital Information System

- Combined **Bootstrap** with **LayUI** framework to build appointment, login, and signup pages for doctors, admins and patients
- Utilized **WebSockets** to build real time applications on the web for patients to virtually consult their doctors
- Used **Spring Boot**, **MyBatis** on **MySql** database to build **RESTful** APIs to implement CRUD functions
- Used **Spring MVC interceptors** for authorization and to dynamically display information based on roles
- Employed the **Thymeleaf** to render data on the front end

Management System for the Library of Sichuan University

- Used **React.js MVVM** framework to construct pages for the users, and used **HttpSession** and users' **cookies** to implement **auto-login**
- Gained connections by **HikariDatasource** to improve the access speed, and designed the **PageModel** class to store pagination information