Hao Shi

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SUMMARY

- Dependable and empathetic software developer with 5+ years of experience in J2EE technologies
- Solid understanding of object-oriented design and Microservices, with a strong background in data structures, algorithms and code refactoring. Proficient in function design and troubleshooting
- Proven team player in different collaborative environments and various volume teams

PROFESSIONAL EXPERIENCE

Senior Back-end Developer   **04/2023 - Present**
ThirstyBrain Inc., Montreal, Canada (remote)

- Developed the back-end distributed system for an online platform using the **Spring Cloud** framework
- Designed and implemented the media service, using **MinIO** as a distributed file storage system and implemented features for regular file uploads, big file chunked uploads, resumable uploads and rapid file transmission
- Used **XXL-Job** for distributed task scheduling, combined with **multi-threading** to implement efficient execution of video transcoding tasks, employed distributed locks to ensure task idempotence
- Utilized **FreeMarker** in conjunction with **MyBatis Generator** to develop a code generator, significantly improving subsequent development efficiency
- Developed software using **Agile** development methodologies. Implemented **CI/CD** using **GitLab** and **Jenkins**, integrated with **Docker** for automatic deployment to **AWS EC2** instances

Back-end Developer   **05/2022 - 04/2023**
ByteTube Inc., Montreal, Canada

- Developed and maintained the back-end systems for administration and user application from scratch, including domains design and database architecture. Developed CRUD functionalities and new features such as captcha, thumbnail uploading, MD5 encryption and scheduler based on **Quartz**
- Leveraged the combination of **Spring Boot** and **MyBatis** frameworks to rapidly iterate the first stable version and and developed a multitude of **RESTful APIs** to communicate with the front-end system
- Developed the functionality of scanning QR codes for login and implemented user authentication control by configuring interceptors and storing user and shop information in the session
- Utilized **Redis** to store data with infrequent changes, improving data retrieval efficiency

Software Development Engineer   **07/2019 - 05/2022**
China Construction Third Engineering Bureau Urban Investment and Operation Co., Ltd., China

- Developed new features for the internal office automation system using **Spring Boot** framework
- Utilized the **MyBatis-Plus** framework to iterate the original **MyBatis** framework, seamlessly integrating the DAO and Service layers and facilitating efficient database interactions
- Implemented user authentication using **Spring Security** filters and leveraged token-based authentication to securely store and manage login user information, ensuring persistent login sessions. Used **Redis** as a storage solution to store and manage user operation permissions, enabling effective user access control
- Collaborated with three colleagues to learn the **Activiti** framework and successfully developed the **workflow** approval functionality for the entire office automation system. The system was utilized by **over 1000** internal employees for various approval processes, including leave requests, work overtime and reimbursement

TECHNICAL SKILLS

- **Languages:** Java, SQL, C++, JavaScript, HTML/CSS
- **Technologies/Frameworks:** Spring, Spring Boot, Spring Cloud, Spring Security, MySQL, MyBatis, JUnit, Redis, PostgreSQL, MongoDB, Kafka, Elasticsearch, Docker, Jenkins, Microservices, Activiti, RESTful API
- **Development Tools:** Git, AWS(EC2, S3, CloudFront), Maven, Linux, Postman, IntelliJ IDEA, Navicat

EDUCATION

McGill University, Montreal, Canada   **09/2017 - 05/2019**
Major: Structural Engineering, Master of Engineering (GPA: 3.89/4.00)
Dalian University of Technology, Liaoning, China   **09/2013 - 06/2017**
Major: Harbor, Waterway and Coastal Engineering, Bachelor of Engineering (GPA: 86/100)