

SUMMARY

Java Full-Stack Developer with expertise in Java, Spring Boot, React, Angular, microservices, and AI. Possesses exceptional communication skills, a passion for learning new technologies, and a strong sense of ownership and responsibility in delivering high-quality solutions.

EDUCATION

Syracuse University	GPA:3.8/4	-Master of Computer Science	09.2022 - 05.2024
Harbin Institute of Technology		-Bachelor of Engineering	09.2016 - 06.2020

TECHNICAL SKILLS

Languages: Java (8/11/17), JavaScript, TypeScript, Python, C/C++

Frameworks: Spring Boot, Spring MVC, Hibernate, MyBatis/Plus, React.js, Angular, Flask

Databases: MySQL, Redis, MongoDB, Elasticsearch, AWS RDS, AWS S3, Firebase, MinIO

Web: Angular, React.js, HTML, CSS, Bootstrap, jQuery, Redux, Thymeleaf, jsp

Microservices: Eureka, Nacos, OpenFeign, Gateway, Config Center, Resilience4j, Sentinel, Seata

DevOps: AWS EC2, Docker, Jenkins, Linux, Nginx

Middleware: RabbitMQ, Kafka, ELK stack, Flink, Redisson, xxl-job

Testing and tools: Git, Jira, Agile, JUnit, Postman, Mockito, Jmeter, Swagger, Maven, Gradle

WORKING EXPERIENCE

Software Engineer, Beaconfire inc, NJ 10/2024 – Current

- Managed points, products, orders module within the marketing microservice. Participated in **system design**, API development using **Spring Cloud, Spring Boot, Hibernate, AWS, and React**.
- Designed an authentication service using **Spring Security**, supporting login via username-password, mobile/email verification code, and Google **OAuth2**.
- Implemented search using **Elasticsearch**, designed indices, used **Flink** to Sync **AWS RDS** and **Elasticsearch**, and built an **ELK** log platform to aggregate and retrieve logs of microservices.
- Used **WebSocket** to enable real-time conversations between consumers and customer service.
- Developed CD process with **Jenkins** and **Docker**, cutting time by **50%** and downtime by **30%**

PROJECTS

News Platform

- Developed an news application, including code, mock testing, and stress testing, using **Spring Boot, Hibernate, SpringMVC, SpringCloud, Jmeter, Mockito, Apifox** and **Angular**.
- Implemented **delayed order closing, payment callbacks, and storage of statistical data** with **RabbitMQ**.
- Used **xxl-job** to perform scheduled calculations based on user behavior data and stored popular data in **Redis**.
- Used **Kafka Stream** to compute real-time data and update **Redis** and **Elasticsearch** for trending data searches.
- Designed appropriate rate-limiting rules and fallbacks, including **Resilience4j** for microservice rate limiting and **Redis-based** user behavior rate limiting.

Short Url Management System

- Developed a url management platform using **Spring Boot**, including four **microservices** interconnected via **OpenFeign** and **Eureka**. Deployed in **AWS EC2** and data stored in **AWS RDS**.
- Utilized **MySQL** for storing various tables of data, employed **horizontal table partitioning** to ensure SQL query efficiency, and added **routing tables** to prevent cross-shard queries.
- Used **Redis** as a caching middleware, applied **Bloom Filters** and **distributed locks** to solve cache penetration and cache breakdown. Achieved consistency between **MySQL** and **Redis** by Capturing **BinLog** Changes using **Flink**.

Face Recognition App

- Preprocess dataset using **OpenCV**, then using **PCA** model to find principal components of face image.
- Train **SVM** machine learning model to find the best parameters, then using **pickle** to save the model.
- Create RESTful API in **Flask** and incorporate pretrained SVM models and processing function, to provide accurate predictions for user-uploaded photos in real-time.