

Zhufeng (Zephyr) Qiu

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EDUCATION

Northeastern University, Khoury College of Computer Sciences Jan. 2023 - May 2025

- M.S. in Computer Science, **GPA: 4.0/4.0**
- Related course: Programming design paradigm, Algorithm (served as Teaching Assistant)

University of Southern California, Viterbi School of Engineering Aug. 2019 - Mar. 2021

- M.S. in Applied Data Science, **GPA: 3.83/4.0**
- Related course: Data mining, Machine learning, Data management

Wuhan University Sep. 2014 - Jun. 2018

- B.S. in Geographical Information Science, **GPA: 3.58/4.0**
- Related course: Data structure, Linear algebra, Discrete mathematics, Probability theory and statistics

WORKING EXPERIENCE

NSFOCUS Technologies Group Co Ltd Wuhan, China
Research and Development Engineer Jun. 2021 – Dec. 2022

- Connected original product logs to **Kafka** topic, preprocessed and normalized these original logs, and then stored filtered normalized data in **Elasticsearch** engine.
- Established the **Item/User-based Collaborative Filtering** models, and stored user eigen-vector in **HBase** to provide the decision-making guide for emergency response. Achieved success alerting response to 100 percent of severe threats and 90 percent of high threats as measured by a Telecom Operator client.
- Led a team of three people to develop and maintain the **CI/CD** pipeline to implement and update the data-normalization module for the malicious traffic alarm platform by utilizing **Spark** framework, and performing **MapReduce** batch process to generate weekly reports, which serves over 100 clients at an average dataflow of 5M per day.

PROJECT

Train Flash Sale System – Github: https://github.com/Zhufeng-Qiu/train_flash_sale Jan. 2025 – Sep. 2025

- Built a **microservices-based flash sale ticketing platform** using **Spring Boot 3**, **Spring Cloud** (**Nacos** for service registry/config, **Seata** for distributed transactions, **Sentinel** for rate limiting, **Gateway** + **Feign** for inter-service communication), **MyBatis** + **MySQL** for persistence, **Redis** for caching, **RocketMQ** for messaging
- Implemented **high-concurrency strategies** (**Redis** caching, **Sentinel** rate limiting, distributed locks, token throttling, async queuing) to handle **100K+ concurrent requests** without overselling.
- Ensured **data consistency and reliability** with **Seata**-managed distributed transactions, **RocketMQ**-driven decoupled workflows, and **Quartz** batch jobs for daily train schedule generation.
- Delivered **dual frontends (Vue3)** for users and admins, developed a **custom FreeMarker-based code generator** to accelerate CRUD development, and participated in **cloud deployment** of the system for production readiness.

DevConnector Social Network Platform Feb. 2023 – Dec. 2023

- Build a full-stack application for developers including authentication, profiles, and forum posts
- Built **RESTful APIs** with **Node.js** and **Express.js**, and interacted with **MongoDB** cloud database by using **Mongoose** ODM (Object Data Modeling) library
- Designed front-end UI with **Sass** and implemented it with **React**, utilizing **HTML**, **CSS**, and **JavaScript**
- Protected routes with **JWT** (JSON Web Tokens), utilizing **express-validator** express middleware to secure information across HTTP requests/responses
- Managed app state with **Redux** reducers and actions, and deployed the project to **Heroku**

EazySchool Management System Jan. 2023 – Apr. 2023

- Developed a student and course management platform using **Spring** framework and **Spring Boot** extension
- Designed app architecture by using **Spring MVC**, interacting database with **Spring JDBC** and **Spring Data JPA**, monitored application with the **Spring Boot Actuator**, and deployed the project to **AWS Elastic Beanstalk**

SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, C++

Frameworks/Tools: React, Node.js, Express.js, Spring Boot, Spring Cloud, Redis, JMeter, scikit-learn, Hadoop, Spark, PySpark, MapReduce, HBase, Hive, RESTful API, MongoDB, AWS, JUnit, Jenkins, Git, Gradle, Maven