Zhiyi Zhang

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Available: May 2024 – Dec 2025 | GitHub: https://github.com/KrystalZhang00

EDUCATION

Northeastern University – Seattle Campus, Seattle, WA   Jan 2023 – Present
MS in Computer Science Candidate, GPA: 4.0 / 4.0   *Expected Graduation: Dec 2025*
Relevant Coursework: Computer Systems, Algorithms, Object-Oriented Design, Discrete Structures

University of Washington, Tacoma, WA: GPA: 3.8 / 4.0
Bachelor of Arts in Business Administration

TECHNICAL KNOWLEDGE

Languages: Java, Python, Go, JavaScript, SQL, HTML/CSS
Tech stack: React, Node.js, Flask, Spring Boot, gRPC, OOD
Developer Tools: Git, Docker, Maven/Gradle, Grafana, IntelliJ IDEA, Kibana

PROJECTS

CRM System | React, Node.js, MongoDB, Docker
- Designed and implemented a comprehensive online CRM system to streamline operations across Invoice Management, Inventory Management, Accounting, and HR departments.
- Developed the front-end using **React**, creating a responsive and user friendly interface that enhances user experience and engagement.
- Engineered a robust back-end system using **Node.js**, handling complex business logic and ensuring seamless data processing and functionality.
- Utilized **Docker** Compose to manage multi-container Docker applications, enhancing the development environment and ensuring consistency across multiple development stages.

Scheduled Job Microservice | Spring Boot, Spring Cloud, Nacos, MySQL, Redis, Kafka
- Developed a robust service using Java with Spring Boot, Spring Cloud, and Spring Gateway to execute predefined jobs at scheduled times, enhancing operational efficiency.
- Engineered the service following **modular design patterns** and asynchronous principles to ensure scalability and ease future maintenance, setting a foundation for continuous improvement.
- Implemented a hybrid storage solution combining **MySQL** and **Redis** to optimize data partitioning and sequencing, ensuring high accuracy and performance under peak traffic conditions.
- Designed and executed a **data migration** strategy to segregate cold data from hot data, significantly enhancing memory resource allocation for improved request handling.
- Conducted rigorous **load testing**, successfully increasing the service's QPS from 500 to 2000, demonstrating a 300% boost in handling capacity.

TikTok | Go, MySQL, Redis, Minio
- Designed and implemented a mini version of a TikTok backend service using Go and **gRPC** frameworks.
- Developed multiple **microservices** to handle specific functionalities including user registration and login, video upload and publishing, and comments management. Enabled user interactions such as following and unfollowing through separate service handling.
- Utilized MySQL for database management, creating tables for users, videos, relationships, and comments.
- Implemented Consul for service registration, health checks, and load balancing to enhance system reliability and performance.
- Employed **JWT** for secure user authorization and authentication processes.

WORK EXPERIENCE

Chongqing Huitian Machinery Manufacturing Co Ltd September, Chongqing, China
Sales Associate   Sep 2019 - August 2021
Assistant sales manager   August 2018 - September 2019
- Led global sales analytics to determine and optimize customer demand, classification, and product marketing strategy.
- Increased market penetration in Eastern Europe and Southeast Asia by **15%** to drive engagement and awareness.
- Managed and retained a portfolio of **100**+ clients across **5** countries with a focus on client relations and satisfaction.
- Established the company's social media presence and grew the following to **20,000**+ followers with creative content.