Jason Zefeng Fu

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Education

Fordham University — New York, NY
Master of Science in Computer Science; GPA: 3.81/4.00 — *08/2023 – 12/2024 (Expected)*

Kenyon College — Gambier, OH
Bachelor of Art in Modern Language & Literature, ***Minor in Mathematics*** — *08/2018 – 05/2022*
Mathematical Contest in Modeling (2020): Developed advanced models and achieved Top 26% ranking out of 13,753 teams.

Technical Skills

Languages: Java, Python, Javascript, C++ **Frameworks/Technologies**: Spring, MySQL, MongoDB, Redis, MyBatis, Google Cloud, Docker, Kubernetes, RabbitMQ, Elasticsearch, Logstash, Kibana, Flask, React

Personal Projects

E-commerce Web Application — 05/2024 – 08/2024
Tech Stack: Springboot, Vue, MyBatis, MySQL, MongoDB, Redis, RabbitMQ, Elasitcsearch, Docker, Kubernetes, Jenkins

- **Full-stack Application**: Developed a Spring Boot backend and an interactive Vue.js frontend to manage inventory and customer orders. Enhanced communication between frontend and backend via RESTful APIs and assured API security with Spring Security.
- **Optimized Database Architecture**: Designed a high-performance database system using MySQL for core storage, MyBatis as the ORM layer, and implemented Redis caching to store frequently accessed data, achieving a cache hit rate of 86%, reducing database query latency from 500ms to 50ms, and improving response times by 90%.
- **Advanced Logging and Monitoring**: Implemented the ELK stack (Elasticsearch, Logstash, Kibana) to streamline log management, improving debugging efficiency and enabling detailed application performance insights.
- **Order Management**: Improved the order cancellation process with RabbitMQ, using delayed messaging to automatically release inventory, improving system reliability.
- **CI/CD Implementation**: Containerized the entire application using Docker and automated the deployment pipeline through Jenkins, ensuring smooth, continuous integration and delivery.

AI Poker Agent — 09/2023 – 12/2023
Tech Stack: Flask, React, Docker, Kubernetes, Google Cloud

- **AI Decision-making Agent**: Created a full-stack Texas Hold'em poker application featuring a deep Q-learning AI agent, providing real-time decision-making assistance to players and increasing game-win probability by 36%.
- **Real-time Flask Backend**: Built a robust Flask backend to handle real-time API requests, delivering AI-generated decisions with sub-200ms response times, ensuring smooth and uninterrupted gameplay.
- **User-Centric Frontend**: Developed a responsive and intuitive React frontend, enhancing the user experience with real-time feedback and dynamic game visuals.
- **Scalable Cloud Deployment**: Deployed the entire application using Kubernetes on Google Cloud, ensuring horizontal scalability and reliability.

Work Experience

Kintetsu World Express — Chicago, IL
Operations Specialist — *07/2022 – 07/2023*

- **Import Customs Processes**: Optimized import customs processes by identifying bottlenecks and implementing streamlined procedures, reducing clearance delays and ensuring regulatory compliance.
- **Billing and Issue Resolution**: Managed complex data sets in billing and resolved issues with vendors and customers, maintaining professionalism and fostering positive relationships.
- **Multilingual Communication**: Utilized multilingual communication skills (English, Chinese, Japanese) to collaborate effectively with cross-functional teams and customers, ensuring seamless coordination in a high-stakes international environment.

Kenyon College — Gambier, OH
Apprentice Teacher of Chinese — *09/2020 – 05/2021*

- **Curriculum Development**: Designed and structured curriculum content to align with course objectives.
- **Classroom Management**: Led classroom sessions for 10 students over Zoom, fostering an interactive learning environment through the effective use of digital tools and resources.
- **Communication**: Simplified complex Chinese language concepts into digestible lessons, encouraging students to ask questions and participate in discussions, resulting in improved language proficiency.