Yiyan Kong

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Education

UNIVERSITY OF CALIFORNIA, IRVINE, Irvine, US Sep. 2024 – Dec. 2025
Master of Computer Science GPA: 0

NORTHEAST NORMAL UNIVERSITY, Changchun, China Aug. 2017 - Jun. 2021
B.Eng. in Software Engineering GPA: 3.76/4.0

Technical Skills

Programming Languages: Java, C/C++, Python, SQL, JavaScript, HTML/CSS, Node.js, MATLAB
Frameworks and Libraries: SpringBoot, MyBatis, Kafka, RPC(Thrift), PyTorch, ZooKeeper
Database and Tools: MySQL, Redis, Elastic Search, Docker, Git, AWS, GCP, LaTeX

Work Experience

Meituan China Beijing, China
Back-end software engineer(full-time) Jul. 2021 – Sep. 2023

- **Community Marketing Development**: Developed and optimized marketing channels from scratch on WeChat and WeCom platforms, utilizing APIs and integration tools. Achieved automated delivery of over 2.5 million daily messages with a 99.5 percent success rate, ensuring scalability and reliability. The UV(Unique Visiter) achieved an increase of 1 million to 6 million in this field.
- **Consumer Side Development**: Led the migration of the app's homepage content exposure module, refactoring five core modules for improved performance and maintainability; improved the metrics and alerting part of the entire process; established marketing content exposure dashboards to streamline bug tracking and data visualization, increasing operational efficiency.
- **Service stability maintenance**: Regularly monitored metrics, identify server issues, and replaced or reclaimed problematic servers; based on the service governance tools provided by the company, configured Rate Limiting strategies and Circuit Breaker Strategies at the interface level to ensure high business availability.

Project Experience

Optimization of Capacity based on WeCom Project Meituan
Java | *Thread Pool* | *Kafka* | *Thrift* | *MySQL* | *Redis* | *EXPLAIN*

- Enhanced system performance by adopting asynchronous processing to handle requests involving over 10,000 user data, ensuring optimal response times.
- Utilized MQ to disperse users' requests during business peak periods, ensuring high availability and optimized performance.
- Optimized MySQL queries by using EXPLAIN tool, applying scenario-specific query conditions to use the most effective indexes, avoiding slow SQL queries and enhancing database performance.
- **Results**:
  - Increased the system's capacity by more than 4x.
  - The response time was reduced from 510.8 ms to 100 ms, significantly improving user experience.

Information Exposure Channel Building Project Meituan
Java | *Configuration Driven Development* | *Generics* | *Thrift*

- Implemented Configuration Driven Development (CDD) approach by utilizing Map and Generics to decouple configuration from code, enabling dynamic control over additions and removel of channels.
- Designed and Implemented user-id-based grayscale release strategy, combined with machine-based grayscale release, and introduced metrics and alerting part to ensure timely response and rapid rollback if necessary.
- **Results**: Avoided duplication of effort and improved development efficiency by 80 percent, reducing time spent on manual adjustments and enhancing system flexibility.

Awards and Achievements

- **Successfully promoted** with *first place* @Meituan 2022.09
- Most Outstanding Junior Employees of the Business Group (top 5%) @Meituan 2022.01