JACKY TANG

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SUMMARY

Motivated CS graduate student with strong backend expertise. Proven ability to enhance user engagement and contribute to scalable web solutions, demonstrating a professional and results-driven approach.

TECHNICAL SKILLS

- Java, Spring Boot, REST API, Spring Cloud, MyBatis, Docker, Kubernetes, Apache Kafka
- Python, Flask, SQL, JavaScript, Node.js, Express.js, React, Vue
- MySQL, PostgreSQL, MongoDB, Redis, Postman, AWS, GitLab, Maven, Jenkins, Jira, Heroku

EDUCATION

California State University, Fullerton August 2022 – December 2024
- Master of Science in Computer Science - GPA: 3.96 Fullerton, CA

Qingdao University September 2018 – June 2022
- Bachelor of Engineering in Digital Media Technology - GPA: 3.56 Shandong, China

PROFESSIONAL EXPERIENCE

Software Engineer Intern | [Inspur Software Co., Ltd] | Shandong, China June 2023 – August 2023
- Enhanced a "ResourceFinder" Platform, connecting 1,000+ users with resources and promoting user engagement, resolving display issues achieving a 30% growth in monthly active users.
- Refined Late Check-In business logic using Spring MVC, eliminating point deduction errors.
- Engineered robust pagination with MyBatis, ensuring seamless support for the retrieval of over 10,000 search results, improving the query speed and reducing 80% in load time.
- Resolved the synchronization issues of pageviews between MySQL database and Elasticsearch, and addressed security vulnerabilities in private data, ensuring data integrity and mitigating the data exposure.
- Tested REST API endpoints with Postman, auto-evaluated performance using JMeter, and wrote integration tests via JUnit, achieving a 25% optimization in API response times.
- Integrated CI/CD pipelines using GitLab and Jenkins, applied Nacos and Nginx for microservices deployment and load balancing, improving the security and reducing costs of delivery by 50%.

PROJECTS

Distributed High Availability Flash Sale System | [GitHub] September 2023 – December 2023
- Developed a high-performance system in Java using Spring, scaled with high traffic volumes during flash sales.
- Built a real-time suggestion generator that captures user input and integrated search filters for brands, categories, and prices using Query DSL, improving about 25% in search speed, enhancing user experience.
- Established data replication from PostgreSQL to Redis, adopted Lua Script and cached essential goods information, decreasing data access latency and led to a reduction of 40% in the server response time.
- Promoted a messaging architecture using RocketMQ, alongside asynchronous processes to enhance concurrency.
- Utilized Sentinel for flow control and rate limiting, managing a multi-threading web server with over 600 QPS.

Cloud Microservice Video-to-MP3 Converter System | [GitHub] February 2023 – May 2023
- Built a microservice system using the Flask in Python, applied Docker and orchestrated it with Kubernetes.
- Enforced JWT secure authentication before uploading videos, streamlined microservice communication through RabbitMQ, and administered MongoDB for MP3's storage, boosting data retrieval speeds by 40%.
- Incorporated a Gmail notification service, enhancing microservices communication through timely alerts.
- Applied AWS S3 and AWS Lambda for storage and process, achieving a 25% faster content approval process.

Full Stack Food Hub Web Application | [GitHub] September 2022 – December 2022
- Led an Agile team of 5 using Scrum to develop a social media app focused on user post engagement.
- Applied a client-server architecture, designed web pagination using React, and built the server-side with Express, resulting in a 20% faster page load time.
- Strengthened security by Google OAuth2 authentication, lowering breaches and boosting user data protection.
- Deployed server and client-side on Heroku, leveraging its cloud platform for scalability and accessibility.