Jamie Yue

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Summary

Proven problem-solver with **startup** experience, skilled in full-stack **MERN** web development, **event-driven microservices**, and **AWS-based RESTful API** design. Actively seeking **Summer 2025 internship opportunities**.

Education

Northeastern University - Seattle   09/2024 – 06/2026
M.S. in Computer Science   Seattle, WA
Selected Coursework: Distributed Systems, Software Engineering

University of California, San Diego   09/2020 – 06/2024
B.S. in Mathematics and Computer Science   San Diego, CA
Selected Coursework: Data Structures, Relational Databases

Technical Skills

Languages: Java, JavaScript, TypeScript, HTML, CSS (Tailwind CSS)
Frameworks & Tools: Elasticsearch, Express.js, Next.js, React, Kubernetes, Docker, RocketMQ
Databases: PostgreSQL, Redis, SQL, MongoDB

Professional Experience

Software Engineer Intern   06/2024 – 09/2024
SkillUp   Seattle, WA

- Participated in the planning and execution of the "Limited Time Discount & Buy Now" business request. Integrated **Redis** and **RocketMQ** into the **MySQL** master-slave architecture to enhance throughput.
- Split the order service into discount and order microservices following **DDD (Domain-Driven Design)** principles. Developed unit tests using **JUnit** and **Mockito**, improving test coverage from **60%** to **85%**.
- Implemented **cache preheating** for active promotions. Completed locking and reverting of the inventory service using **Redis** and **Lua** scripts.
- Alleviated order service stress during peak loads by asynchronously creating orders using **RocketMQ**. Implemented "Pay-Check & Cancel" by consuming delayed messages and optimized optimistic locking for updating inventory in the **MySQL** database, improving throughput by **300%** based on **300 TPS**.

Selected Projects

Personal Website   `www.hanningyue.com`

Job Search Application   **Java, MySQL, AWS, Redis**

- Developed a full-stack job search web application. Created Search, Favorite, and Recommendation **Java Servlets** with **RESTful APIs** to handle HTTP requests and responses.
- Set up and deployed to an **AWS EC2** virtual machine instance and installed **Redis** to cache Search and user Favorite results, reducing latency by **60%**.
- Designed and built a relational database schema using **MySQL** on **AWS RDS** to persist, manage, and process jobs data fetched from the **GitHub API**, extracting keywords from position descriptions.

Microservices Ticketing Platform   **TypeScript, Kubernetes, Docker, Node.js**

- Designed a scalable, event-driven **microservices platform** using **TypeScript, Kubernetes, Docker, and Node.js**.
- Integrated **Apache Kafka** for reliable data streaming, ensuring data consistency across services.
- Improved page load times by **35%** using **Server-Side Rendering** with **Next.js**; reduced deployment time by **40%** using GitHub Actions **CI/CD pipelines**.

Full-Stack Social Media Application   **React, Next.js, MongoDB, Express**

- Developed a social media application using **React, Next.js, MongoDB, and Express**, with features like authentication and real-time notifications.
- Created a geo index using **Elasticsearch** to support geo-based search based on user-selected locations.
- Reduced query times by **40%** through **MongoDB** optimization; increased content safety by using a **Deterministic Finite Automaton (DFA)** to filter sensitive words, reducing inappropriate content incidents.