Xi Yang

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▤ Website · **in** LinkedIn · ⏻ Github

EDUCATION

Northeastern University   Seattle, WA
MS in Computer Science Candidate, **GPA: 4.0 / 4.0**   Sep 2023 – May 2026 (expected)
Coursework: *Cloud Computing, Database Management, Data Structures & Algorithms(C), OOD(Java)*

Peking University   Beijing, China
BA in Arabic Language and Literature, GPA: 3.73 / 4.0   Sep 2015 – Jun 2019

TECHNICAL KNOWLEDGE

Programming Languages: Java, Python, C/C++, JavaScript, SQL
Frameworks & Tools: SpringBoot, React.js, Node.js, MyBatis, MySQL, Redis, Docker, Kubernetes, AWS, Git

PROJECTS

Tickets App with Microservices | ⏻ *Node/Express.js, React, Docker and Kubernetes*   May 2024 - Present
- Architected and deployed a robust ticketing platform using microservices for seamless product management, order processing, payment handling, and user authentication with Node/Express.js, React, Docker, and Kubernetes.
- Implemented secure user authentication mechanisms, integrating **JWTs** with **session support** and **advanced AES encryption**; reduced unauthorized access incidents by 40% and enhanced overall data security compliance standards.
- Utilized a robust cloud deployment strategy by leveraging **Docker** for containerization and **Kubernetes** for orchestration; decreased server costs by 25% and improved application scalability.

E-Commerce Platform | ⏻ *Java, Redis, SpringBoot, RabbitMQ, MySQL*   Feb 2024 - May 2024
- Developed a comprehensive online shopping platform with features like SMS login, tracking website UV stats, coupon flash sale, and user check-ins.
- Implemented robust **distributed locking mechanisms**, preventing overselling during high-traffic periods and maintaining 99.9% inventory accuracy.
- Enhanced system throughput by over **300 times** by integrating a **Redis caching layer** to efficiently store and retrieve merchant data, significantly improving application performance and reducing load times.
- Optimized cache management by implementing dedicated threads for hot data rebuilding, achieving an **80% reduction in cache miss latency** and significantly improving overall system performance.
- Boosted operational efficiency by overhauling order processing with **RabbitMQ**, doubling response rates and reducing turnaround time from 48 hours to 24 hours.

Article Management Application | ⏻ *Java, SpringBoot, MyBatis, Redis*   Dec 2023 - Jan 2024
- Engineered a backend application for news article management and operations;
- Crafted robust **RESTful APIs** using Spring Boot, optimizing HTTP request and response handling, which led to a 20% increase in application throughput and reduced server load by 15%.
- Standardized error handling by customizing **unified error codes** and encapsulating a **global exception handler**; reduced debugging time by 40%.
- Boosted security protocols by leveraging **Redis** for user authentication token management, leading to a 30% decrease in security vulnerabilities and a 15% improvement in overall system performance.
- Implemented 90% coverage **unit testing** to ensure the functionality of the project components.

PROFESSIONAL & VOLUNTARY EXPERIENCES

Teaching Assistant CS3500 Object-Oriented Design | Northeastern University, Seattle   Jul 2024 - Sep 2024
- Assisting the instructor in preparation of course materials including assignments, labs, quizzes, and exams.
- Conducted thorough code reviews for 10 students, providing actionable feedback and clarifying complex concepts

Administrative & Event Assistant | Northeastern University, Seattle   Apr 2024 - Present
- Executed and streamlined multiple administrative and event tasks, successfully collaborating with 15+ team members, resulting in a 20% increase in guests satisfaction.

Website Master of [PCML](#) Lab | Shenzhen University, China   2022 - Present

CERTIFICATES

SQL *certified by HackerRank*   **Professional Communication** *certified by Northeastern University*