

Songting Yang

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EDUCATION

Northeastern University

Master of Science in Computer Science

San Jose, CA

Sep 2023 – Dec 2025

- GPA: 4/4 | Related courses: Object-Oriented Design, Data Structures & Algorithms
- Leadership: VP @ACM – W (Council on Women in Computing) Northeastern University Chapter

Rutgers, The State University of New Jersey

Bachelor of Science, Finance & Business Analytics and Information Technology

New Brunswick, NJ

Sep 2020 – May 2023

- GPA: 3.76/4 | Related courses: Business Data Management, Data Mining, Investment Modeling in R, Time Series

EXPERIENCE

Sanxin Technology Inc

Software developer Intern

Remote

May 2023 – Aug 2023

- Created the dynamic frontend pages with re-usable components using **React**, **JavaScript**, and **jQuery** to respond to user event data, achieving a 40% increase in user engagement.
- Designed and developed websites with **Node.js** and **Express.js** to visualize agricultural planting procedures, supporting efficient plant search, user management, authentication, and admin control.
- Implemented efficient data models and operations using **MySQL** and optimized database design with **CQRS** to improve data query processing time.
- Enhanced the web application's 2Auth by implementing an SMS one-time-password authentication with **JWT**.

PROJECT

MicroHub: Integrated Microservices Ecosystem

Jan 2024 – Now

- Develop and deploy a series of microservices in **Go** (Golang), including Front End, Authentication, Logging, Listener, Broker, and Mail services, employing **Postgres** and **MongoDB** for database management.
- Implement inter-service communication via REST APIs, gRPC, and AMQP using **RabbitMQ**, optimizing data flow and service interoperability within a distributed application architecture.
- Orchestrate containerized microservices deployment using **Docker** Swarm and **Kubernetes**, enabling efficient scaling, and updating of services with minimal downtime.

JavaBeans Forum: Interactive Coffee Community Platform

May 2023 – Sep 2023

- Developed a comprehensive forum application using **Spring Boot** that featured email-based registration, MD5 password hashing with salting, dynamic captcha validation, post & comment creation, chat, and content filtering.
- Implemented user authentication by issuing login credentials stored in **Redis**, integrated **Spring Security** for user registration and password encryption, and utilized Thread Local to store user data facilitating distributed deployment.
- Implemented the full-text search with **Elasticsearch** and used **Kafka** for real-time notifications and post synchronization.
- Optimized server performance by 60% through a multi-tier caching strategy using **Caffeine** and utilized **Quartz** for distributed tasks like hot post ranking computation.

PressPulse: Dynamic Press Release Engagement Tool

Dec 2022 – March 2023

- Developed a user interface for a press release system that enabled users to access and distribute press release and traffic visualizations with **React** and **JavaScript**.
- Utilized **Amazon DynamoDB** for efficient and serverless data storage, enabling real-time press release updates and access
- Integrated **D3.js** for interactive data visualization and **Redux Toolkit** to manage application states and for handling asynchronous redux actions.
- Leveraged on **Amazon EC2** instances to gain flexible server capacity that scales automatically to meet user demand.

SKILLS & CERTIFICATE

- Programming Languages: Java, Python, Go, C/C++, JavaScript, Swift, PHP, HTML, CSS, R, MATLAB
- Framework & Tools: MySQL, PostgreSQL, Git, React.js, AWS, Bootstrap, Node.js, MongoDB, Spring Boot, Django
- Certificates: CodePath in Intermediate Technical Interview Pre, Udemy in the Complete 2022 Web Development