Songting Yang

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EDUCATION

Northeastern University   San Jose, CA
Master's in Computer Science Align   2023/09-current
Rutgers, The State University of New Jersey Rutgers Business school (dual degree)   New Brunswick, NJ
Bachelor of Science, Finance & Business Analytics and Information Technology   Sept 2020 – May 2023
- GPA: 3.76/4 | Related courses: Business Data Management, Data Mining, Investment Modeling R, Time Series

South China University of Technology (dual degree)   Guangdong, CN
Bachelor of Business Administration   Sept 2018 – May 2023
- GPA: 84/100 | Related courses: Computer Network, Calculus I & II, Linear Algebra and Analyst, Probability and Statistic

SKILLS & CERTIFICATE

- Programming Languages: JavaScript, Python, HTML, CSS, R, Java, PHP
- Framework & Tools: MySQL, PostgreSQL, Git, React.js (Redux), Bootstrap, Node.js, MongoDB, Spring Boot, NoSQL, Django
- Certificates: CodePath in Intermediate Technical Interview Pre, Udemy in the Complete 2022 Web Development

WORK EXPERIENCE

Sanxin Technology Inc   Yunnan, China
Full stack developer Intern   May 2023 – August 2023
- Designed and developed websites visualizing planting procedure with modules of plant search, user management, authentication and admin using **Node** and **Express**.
- Designed and implemented efficient data model and operations using **MySQL** , optimized the database design with **CQRS** to reducing the latency by 30%.
- Designed **REST APIs** handling HTTP requests for **Elastic Search Engine** to effectively serve data dynamic inputs from 30,000 users, improving the query speed.
- Enhanced the web application's 2Auth by implementing an SMS one-time-password authentication with **JWT.**
- Created the dynamic frontend pages with re-usable components using **React**, **Next JS**, and **JavaScript**, Used jQuery to implement dynamic form validation and interactive UI elements and **MongoDB** for user management.
- Built a **CI/CD** pipeline using GitHub Actions to automate the testing process. Created unit tests with **Jest** and **Super test.** Performed end-to-end usability tests on concurrency control mechanisms using **JMeter**.

SELECTED PROJECTS

Nowcoder 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 sensitive word 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 executed global search functionality with + IK tokenizer; used **Kafka** for real-time notifications and post synchronization.
- Optimized server performance through a multi-tier caching strategy using **Caffeine** (local cache) by 80% and **Redis** (distributed cache) and utilized **Quartz** for distributed tasks like hot post ranking computation.

Global Press Release System   May 2022 – July 2022
- Developed a user-friendly interface for press release system that enabled users to access, distribute press releasee and press traffic visualization with **React and JavaScript**.
- Provided responsive web design using **React** with **Ant Design**, including features of search inventory, customizing press release layout for different types of medias and visualization.
- Integrated D3.js for interactive data visualization; Utilized **Redux Toolkit** to manage application states and to handle asynchronous redux actions.

House Pricing Clustering and Prediction   April 2022 – May 2022
- Led team of 4: organized meetings, delegated tasks, coding and debugging, etc. Outperformed peers in class
- Preprocessed large data (1460 records, 80 variables) and dealt with missing values and outliers NumPy pandas. Performed correlation analysis to filter the 15 most relevant variables.
- Compared various evaluation metrics for 6 algorithms - **KNN, Random Forest Regression, Gaussian, Catboost, XGBoost, and SVM.** Selected the 4 most optimal ensembled models that achieved 0.13 MSE in prediction.