

Yucong(Emerson) Feng

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Education

Northeastern University, Boston, MA

Sept 2021 - May 2023

Master of Science in Software Engineering Systems

Shanghai University of Electric Power, Shanghai, China

Sept 2016 - Jul 2020

Bachelor of Engineering in Computer Science and Technology, *Outstanding Graduate (TOP 5%)*

Technical Skills

- **Programming Languages:** Java, Python, JavaScript, TypeScript, HTML, CSS, Ruby, MATLAB, Kotlin, SQL
- **Frameworks:** Django, Spring Boot, Flask, Node.js, Express.js, RESTful, React.js, Redux, Spring Security, JUnit, PyTorch, TensorFlow, scikit-learn, Numpy
- **Database/Tools:** MySQL, MongoDB, DynamoDB, Redis, SQLite, Hibernate, Docker, Git, AWS, Kubernetes, Maven

Professional Experience

BUILDBLOCK TECH PTE. LTD.(Ethsign), Software Development Intern

Oct 2023 – Apr 2024

- Built user interfaces using React.js, adopting a component-based development approach, enhancing code reusability and maintainability.
- Managed application state using Redux, achieving unified data management and predictable state, resulting in a 20% increase in system efficiency.
- Developed RESTful APIs based on Node.js, facilitating data processing and ensuring smooth frontend-to-backend data interaction.
- Employed Express.js framework to construct backend services, handling user requests, implementing authentication, and authorization functionalities, ensuring system security.

Shanghai Winner Technology Co., Inc., Software Development Intern

Jul 2019 - Oct 2019

- Utilized **Vue.js** and **Element UI** to develop the user interface, implemented intuitive and interactive components, resulting in an enhanced user experience and improved usability.
- Created a database using **MongoDB** to store error data and track error trends, performed data visualization by using **Tableau** to enhance reporting and analyzing errors.
- Used **Slack API** (restful API) to create a bot that sends automatic error messages to technicians when a product error occurs, reducing product errors by 5.8%.

Academic Projects

High Concurrency Online Shopping System (Spring Boot, Redis, MySQL, RocketMQ)

Nov 2022 - Apr 2023

- Built a web service for online limited time offers that support 100K queries per second and guarantee performance when many people purchase hot selling products within a short time.
- Implemented MVC backend with **Spring Boot**, **MyBatis**, and **MySQL** and solved the problem of high concurrency by using Redis and stored procedures in MySQL, increasing the efficiency by 50%.
- Optimized **Redis distributed lock** to solve the oversold problem and maintained a substantial throughput and guaranteed the stability of the application by considering both sellers and consumers.
- Improved system capability and reliability by using **RocketMQ** and **Sentinel** to enhance flow control.

EazySchool System (Education Information) (Java, Hibernate, Thymeleaf, MySQL)

Jan 2022 - May 2022

- Implemented **RESTful** services using Spring Boot 3 to provide seamless integration and data exchange with other systems.
- Utilized **Thymeleaf** as the templating engine for server-side rendering, enabling dynamic generation of HTML pages.
- Enhanced security features by integrating **Spring Security** for user authentication and authorization.
- Utilized Spring **JDBC** for database connectivity and efficient data access and implemented JPA for object-relational mapping, facilitating database operations.

Social Media Communication Website (MongoDB, Express.js, React, Node.js)

Sep 2021 - Dec 2021

- Developed a developer-oriented full-stack social network application and built a discussion board for users to delete 'Likes' and leave comments of their posts, creating a better customer experience and inspiring users to interact with other users.
- Implemented the front-end with **React** functional components and used **Redux** for application state management, reducing the design cycle by 20% and increasing the convenience for engineer to do maintenance.
- Created an extensive backend API with **Node.js** and **Express**, using **MongoDB** as database, and managed the connection between back-end web server and database with **Mongoose**, leading to a safer environment for users.