

Yiren (Emmeline) Xu

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EDUCATION

University of California, Irvine

Irvine, CA

Master's degree in Computer Software Engineering, GPA: 3.95/4.0

Sep. 2023 – Dec. 2024 (Expected)

Kean University

Union, NJ

Bachelor of Science, Major in Accounting, Minor in Computer Science

Sep. 2019– Jun. 2023

Overall GPA: 3.6/4.0, minor GPA: 3.7/4.0; Honors: Dean's List in every academic year (Top 15%)

TECHNICAL SKILLS

Languages: Java, Python, Golang, JavaScript, HTML, YAML, CSS, SQL, TypeScript, Shell

Frameworks: React, Node.js, Express.js, JUnit, npm, Flask, Spring Boot, Vue.js

Developer Tools: MongoDB, Redis, AWS, Git, CI/CD, SQL Server, Docker, Postman, Maven, Kafka, Webpack

Related Coursework: Distributed Software Architecture, Web Programming, Software Testing and Debugging, etc.

EXPERIENCE

Project Developer, IrvineHacks 2024

Jan. 2024

Irvine Hackathon

Irvine, CA

- Collaborated with 3 teammates during a hackathon, jointly constructing 'ZOT Pantry', a **React** and **HTML/CSS** web app for inventory management and dynamic recipe suggestions via **Spoonacular API**
- Designed a responsive UI with **React** and **CSS3**, focusing on cross-device compatibility and maximizing user engagement, employing **Figma** for iterative UI/UX design enhancements based on user feedback
- Executed **JavaScript** code to fetch and process **JSON** data from **Spoonacular API** using an API key, leveraging **React hooks** for efficient state management, reducing data processing time by 200ms
- Adopted **Git/GitHub** for code reviews, cut merge conflicts by 40%, and improved project collaboration efficiency

Software Development Engineer (SDE) Intern

Aug. – Sep. 2023

Insignia Technology

Hangzhou, China

- Worked on a **SpringBoot** urban management project, transforming geographical data into dashboard visuals. Increased user interaction by 50% with intuitive map features
- Optimized data retrieval and project builds by harnessing **Git** for version control, **Maven** for build automation, and **MyBatis** for dynamic SQL queries in XML, boosting test coverage by 40% with **JUnit**
- Developed **CRUD** operations, exposed **RESTful APIs** for frontend. Utilized **Swagger** for API docs and tests, cutting integration errors by 25%, speeding frontend work by 20%
- Enhanced database performance through meticulous **SQL** execution and **CRUD** for table construction and data management, streamlining geographic data processing and achieving a 15% improvement in efficiency

PROJECTS

WebMail System

Dec. 2023

- Architected a mail system using **Node.js**, **Express.js**, and **TypeScript** with **RESTful APIs** and **AJAX** for seamless communication. Integrated IMAP/SMTP, speeding up email processes by 20%
- Streamlined contact management using **NeDB**, employing **CSS Grid** and **React** to create a responsive, user-friendly tri-pane interface that facilitates efficient navigation and data interaction
- Boosted system security and performance with **TLS/SSL** encryption and **webpack** optimization, cutting load times by 40% and reducing security risks by 90%

MERN Stack E-commerce Platform Development

Sep. - Oct. 2023

- Server Setup and Configuration: Led server setup and configured **Node.js** and **Express.js** for the project
- Data Management: Designed efficient data models and configured **MongoDB**, implementing data seeding that reduced initial load time by 25% and increased database performance by 20%
- Front-End Development: Created a responsive UI with **React**, leveraging functional components and hooks to reduce page load time by 35% and improve user interaction speed
- Authentication and Payment Integration: Applied secure **JWT** authentication with **HTTP-only** cookies and integrated PayPal and card payments, enhancing the user experience