

# Yuxuan Cai

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## EDUCATION

### Syracuse University

Information&Computer Sciences Master

Aug 2022 - May 2024

Syracuse, New York

### Changchun Institute of Engineering

Software Engineering Bachelor

Sep 2018 - Jun 2022

Changchun, Jilin

Java Web Development, Design & Analyse of Algorithms, Data Structures, Object Oriented Programming, Operating Systems, Application Development.

## SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** Programming Skills: C++ | JAVA | SQL | SwiftUI | Spring Boot | React | Tailwind CSS | Bootstrap | C# | Git. Tools: Navicat, Postman, Figma, Adobe Creative Suite (Adobe Audition, Adobe Animate, Adobe Acrobat), Photoshop, SAI, Microsoft Office Suite (Word, PowerPoint, Excel).

## PROJECT EXPERIENCE

### TalkNest Chat App

Jan 2024 - Mar 2024

- Developed a real-time chat system using **Node.js**, **Express**, **Firebase**, **React**, **Socket.io**, and other technologies, enabling users to communicate via text, voice, or video. [Demo](#)
- Designed and implemented an intuitive layout and message alerts with **React-Toastify** for the login page, enhancing user experience by making the interface more attractive and user-friendly, and providing clear guidance for incorrect operations.
- Utilized **Ant Design** to create dynamic displays and interactive click-through effects for the chat interface components to increase user engagement and interactivity.
- Ensured cross-device compatibility by adapting the software for various devices with **Sass**, providing a consistent user experience across platforms.
- Implemented end-to-end testing using **Cypress** to ensure the reliability and robustness of the chat system, identifying and resolving potential issues before deployment.
- Utilized **GitHub** for version control and established a **CI/CD pipeline** using **GitHub Actions**, automating the build, test, and deployment processes. Deployed the application to **Heroku**, streamlining the release process and ensuring continuous delivery.

### PolyglotBot-Alpha

Mar 2024 - May 2024

- Developed a tool to create personalized English articles and natural-sounding audio for non-native speakers. [Demo](#)
- Created the initial wireframes and visual design of the user interface using **Figma**, facilitating early-stage feedback and iterative improvements.
- Built a user-friendly interface layout based on React and implemented multi-language support using **i18n**, ensuring an intuitive user experience and responsive design for a diverse user base.
- Designed and implemented component appearance utilizing **Bootstrap**, achieving a consistent and professional look and feel.
- Integrated **Swagger** to document and test APIs, enhancing collaboration with backend developers and streamlining the API development and testing process.
- Utilized **Axios** to handle API requests and response data, ensuring seamless communication between the front end and back end.

### Language Learning App

Oct 2020 - Dec 2020

- Collaborated with a team of three to develop a word memorization software using **Vue.js**, **Spring Boot**, enabling users to upload homemade word books for online sharing and feedback.
- Cooperated closely with the UI team to design an appealing and user-friendly interface using **Vue.js**, **Vue Router**, and **Vuex**, ensuring the project met all functional requirements and provided a seamless user experience.
- Developed and maintained responsive design using **Bootstrap** and **Sass**, ensuring compatibility across different devices and screen sizes.
- Completed the design and implementation of the database using **MySQL**, optimizing data storage and retrieval for efficient application performance.
- Constructed and implemented a customizable back-end management system with **Vue.js** and **Spring Boot**, allowing administrators to configure content and images for each page, enhancing the flexibility and scalability of the app.
- Utilized **Axios** for handling API requests and response data, and implemented multi-language support using **i18n** to cater to a diverse user base.

### Campus Food Order IOS App

Aug 2023 - Sep 2023

- Designed and implemented the complete layout of the main page using **SwiftUI**, incorporating intuitive navigation, responsive design, and visually appealing animation effects to enhance the user experience.
- Applied **MVVM** architecture to maintain clean and scalable code, facilitating easier maintenance and testing.
- Utilized **Firebase** for real-time database management, ensuring secure and efficient data storage and retrieval, and integrated it with the front end using **RESTful API** calls and **Codable** for JSON parsing.
- Implemented user authentication and secure data handling using **Firebase Authentication**, ensuring user data privacy and security.