

Yuxuan Cai

+1-(680)910-3733 | yuxuancai123@gmail.com | github.com/YuxuanCai320

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.
- Use **JWT token** to achieve a stateless authentication and authorization mechanism to ensure the security of user authentication.
- 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.

Portfolio

Jun 2024 - Jul 2024

- Based on React and using Firebase to implement a personal page to display personal information and project experience. [Demo](#)
- Design the overall layout and browsing experience using **Figma** to ensure that the page is beautiful and easy to navigate. Implement components and layouts using the **Tailwind CSS** framework to efficiently create responsive designs.
- Combined with **EmailJs** to realize the mail sending function, so that users can leave messages in the mailbox through the page, and through the configuration of mail templates and services to ensure the stability and security of mail sending.
- Utilize **Firebase** for database management to ensure secure and efficient data storage and retrieval.
- Use GitHub Action to establish **CI/CD** pipeline and realize automated testing, building and deployment of code to ensure that the project can be quickly and safely released online after each code update.

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.