

JA XIAN CHEN

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Education

New Jersey Institute of Technology

Bachelor of Science in Computer Science

Graduation Date: May 2024

Newark, New Jersey

Relevant Coursework

- Computer Systems
- Computer Networks
- Data Science
- Database Management
- Linux Programming
- Operating Systems
- Artificial Intelligence
- Cybersecurity

Work Experience

BSD Organics

September 2023 – December 2023

Software Engineering Intern

New York City, New York

- Played a key role in the redesign of the company's landing page, which included a contact form. This was built using a **React/Node/MySQL** stack and styled with **Bootstrap** and **CSS** for a modern and responsive design.
- Implemented back-end account registration functionality using **MySQL** and **NodeJS**, enhancing the overall user experience by allowing seamless creation and management of user accounts. Integrated secure authentication mechanisms to safeguard user data and privacy.
- Assisted the deployment of a company website using Vercel, integrating it into a **CI/CD pipeline** to ensure smooth updates and maintenance.
- Enhanced the user experience by implementing **React.js** on the landing page, resulting in a 40% increase in page load speeds and improved site organization.
- Actively engaged in collaboration with other interns and the team leader, following an Agile methodology to ensure efficient and effective project progression.

Projects

Tru-Fit | *JavaScript, ReactJS, CSS, Node.JS, MySQL* 📺 [Video Demo](#)

November 2023

- Developed a Fitness application that allows users to register as a client or a coach, manage their accounts, and access a comprehensive database of fitness exercises.
- Implemented a front-end application with **ReactJS** and **CSS** that fetches data from the back-end server with **Express.js**.
- Utilized **MySQL** for fetching, removing, and editing user data and exercise information from the front-end.
- Added a feature for users to register as clients or coaches, manage their accounts, and add or modify exercises in the database.

Foreign Whispers – Video Translator | *Python, Pytube, Whisper* 📺 [Video Demo](#)

October 2023

- Developed a **Python** API that downloads videos and closed captions from YouTube, serving as the ground truth for English language.
- Improved the API to extract audio from the downloaded videos and convert it into text using OpenAI's Whisper.
- Implemented a translation feature within the **Python** API to convert the English text into a user-specified language. This feature also includes a text-to-speech conversion for the translated text.
- Constructed a user interface using Tkinter. This interface allows users to input a YouTube video URL and receive the same video with subtitles in their chosen language as output.

Movie Rental App | *JavaScript, ReactJS, CSS, Node.JS, MySQL* 📺 [Video Demo](#)

September 2023

- Built a web-multi page application allowing users to view a list of searchable movies and actors with filtering options.
- Implemented a front-end application with **ReactJS** and **CSS** that fetches data from the back-end server with **Express.js**.
- Implemented REST-API and utilized **MySQL** for data management, including fetching, removing and editing data from the front-end.
- Implemented a feature to allow users to add new customers into the database.

Technical Skills

Languages: Python, JavaScript, Bash, SQL, C, C++, C#, Java

Developer Tools: VS Code, Eclipse, Pycharm, IntelliJ, MySQL, Unity, AWS, Postman

Technologies/Frameworks: Linux, Git/GitHub, ReactJS, Express, Node.Js, HTML/CSS, Bootstrap