

# 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*

## Work Experience

### New Jersey Courts

**February 2024 – Present**

*Software Engineering Intern*

*Newark, New Jersey*

- Built and implemented a front-end user interface using **ReactJS** in a document scanning application for Personally Identifiable Information (PII) in **AWS**.
- Assisted in the deployment of the Front-end application in **AWS** code catalyst and tested use cases features of the application.
- Incorporated PII detection within Microsoft Word and PDF documents leveraging **AWS** Macie, ensuring compliance with data privacy regulations.
- Utilized document storage S3 buckets and Lambda functions for efficient data management and retrieval using **Flask**.

### 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.

## Projects

### Tru-Fit – Fitness App | *JavaScript, ReactJS, CSS, Node.JS, MySQL*

**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*

**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*

**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, Git/GitHub Eclipse, Pycharm, IntelliJ, MySQL, Unity, AWS, Postman, Jira

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