

JA CHEN

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Education

New Jersey Institute of Technology

Bachelor of Science in Computer Science

Newark, New Jersey

Work Experience

New Jersey Courts

Software Engineer Intern

February 2024 – May 2024

Newark, New Jersey

- Built and launched a responsive **ReactJS** front-end for a document scanning application, enabling real-time detection of PII and improving document processing accuracy by **25%**, by integrating with AWS-based detection workflows.
- Deployed the front-end via **AWS CodeCatalyst** and validated **100%** of key user scenarios through targeted use case testing, reducing post-deployment bugs by **30%**.
- Incorporated PII detection within Microsoft Word and PDF documents leveraging **AWS Macie**, ensuring 100% compliance with data privacy regulations.
- Improved document retrieval speed by **40%** by architecting an **AWS S3 + Lambda** (Flask) workflow for secure storage, retrieval, and processing of large document datasets.

BSD Organics

September 2023 – December 2023

Software Engineer Intern

New York City, New York

- Led the redesign of the company's landing page, including a contact form, improving visitor engagement by 25% through a modern, responsive design built with **React**, **NodeJs**, **MySQL**, **Bootstrap**, and **CSS**.
- Implemented back-end account registration functionality using **MySQL** and **NodeJS**, enhancing the user experience by allowing registration and management of user accounts. Integrated secure authentication mechanisms to safeguard user data and privacy.
- Streamlined website deployment by assisting in the migration to **Vercel** and integrating into a **CI/CD pipeline**, reducing downtime during updates to near zero.
- Boosted landing page performance by **40%** by implementing optimized **ReactJS** components and improving site architecture, resulting in faster load speeds and better navigation flow.

Projects

FlixSocial - Android Application | Firestore Database, Kotlin, Android Studio

April 2024

- Implemented an Android application using **Kotlin** that allows users to track movies and connect with other users.
- Leveraged the **TMDB API** to provide users with detailed movie information, including reviews, ratings and trailers.
- Employed **Firebase** as the back-end database for users to track their favorite movies, reviews, followers and account integration, facilitating real-time updates.

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 **ExpressJS**.
- 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

- Extracted audio from 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.

Technical Skills

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

Developer Tools: VS Code, Git/GitHub Eclipse, Pycharm, Intelij, MySQL, Unity, AWS, Postman, Jira

Technologies/Frameworks: Linux, ReactJS, Express, NodeJS, HTML/CSS, Bootstrap