JA CHEN

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Education

New Jersey Institute of Technology — **GPA - 3.21/4.0**
B.S. in Computer Science - 2024 — *Newark, New Jersey*

Work Experience

New Jersey Courts — **February 2024 – May 2024**
Software Engineer Intern — *Newark, New Jersey*

- Collaborated with team of engineers and court administrators to build and launch a responsive ReactJS front-end for a document scanning application, improving document processing accuracy by 25% through AWS-based PII 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 — *Remote*

- 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.
- Collaborated with the Front-end team to optimize ReactJS components and refactor site architecture, boosting landing page performance by 40%.

Projects

Thread Genie AI Assistant (Reddit-Based) | *Next.js, Tailwind, FastAPI, Python, PRAW, OpenAI API* — **May 2025**

- Built an AI assistant that delivers answers grounded in real Reddit discussions, improving response relevance and user trust by synthesizing community-driven insights.
- Developed a responsive Next.js front end enabling seamless, real-time Q&A interactions with a 99% successful query-to-response rate.
- Built a high-performance FastAPI backend that fetches and preprocesses Reddit data with PRAW, then synthesizes it using the OpenAI API into clear, consensus-driven summaries.

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.

Technical Skills

Languages: Python, JavaScript, C++, Java, SQL
Developer Tools: VS Code, Git/GitHub, Linux, Pycharm, AWS
Frameworks: ReactJS, NextJS, NodeJS, HTML/CSS, Tailwind