

Xian-Ji Chen

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EDUCATION

Texas A&M University, College Station, Texas, United States

Aug. 2022 – Dec. 2024(Expected)

Master of Computer Science

- **Highlighted Coursework:** Software Engineering, Operating Systems, Database Systems, Analysis of Algorithms, Distributed Systems and Cloud Computing, Artificial Intelligence, Machine Learning, Network Security, Mobile Wireless Network

National Tsing-Hua University, Hsinchu City, Taiwan

Sep. 2017 – Jun. 2021

Bachelor of Science in Industrial Engineering and Engineering Management, with a Minor in Computer Science

- **Highlighted Coursework:** Design & Analysis of Algorithms, Data Structures, Operating Systems, Computer Architecture

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C/C++, C#

Frameworks/Tools: HTML, CSS, React.js, Next.js, Node.js, Express, Tailwind CSS, Bootstrap, Docker, SQL, MySQL, SQLite, MongoDB, Agile Development Methodology, Scrum, Selenium, Flask, RESTful API, git, Linux, Jenkins, CI/CD, Shell Script

EXPERIENCE

PayPal Inc., San Jose, CA

Jun. 2024 – Aug. 2024

Software Engineer Intern, JavaScript/Node.js/TypeScript/Express/React.js/Jenkins/Shell Script

- Developed a **backend** application using the latest beta version of the **server-side SDK**, identified issues, and **proposed solutions** for key issues, facilitating comprehensive **beta testing** and enabling the SDK team to resolve **5+** critical issues within three sprints.
- Constructed a **Jenkins** pipeline to automate web portal generation from OpenAPI specs, supporting seamless service migration.
- Resolved critical bugs in the **Jenkins** pipeline for the service platform, restoring functionality to generate functional test reports.

National Center for High-performance Computing, Hsinchu City, Taiwan

Jul. 2021 – Apr. 2022

Web Development Intern, HTML/CSS/JavaScript/PHP/MySQL

- Co-developed the FlyCircuit Network website and augmented the direction graph display function of neuron-to-neuron networks to provide easy user reference for inserting search criteria on the website.

RentPackage, Inc., Zhubei City, Taiwan

Dec. 2020 – Mar. 2021

Software Engineer Intern, Python/Selenium/SQLite/Azure/Pandas

- Upgraded **10+** Selenium-based web crawler programs utilizing a blend of Selenium, Async crawler, and Proxy Servers, **boosting efficiency by 3000%** and overcoming the blocking of anti-crawler blocking mechanisms.
- Developed a dubbing tool with a **Microsoft Azure Text-to-Speech service** for the advertising department, addressing the lack of appropriate voice actors for specific languages in Taiwan and ensuring the timely launch of video advertisements in 12+ countries.

SELECTED COURSE PROJECTS

Twitter-Clone TypeScript/Next.js/React.js/Tailwind CSS/MySQL/Prisma/git

Jun. 2023 – Jul. 2023

- Developed a Twitter-like web application that allows users to post, like posts, and follow other users with **T3 stack**.
- Employed **tRPC** and its integrated **Zod validator** to construct **type-safe Next.js APIs**.
- Integrated **Discord OAuth2** using **next-auth** to handle authentication flow and session management for user authentication.
- Leveraged the on-demand revalidation feature of **Next.js** to ensure the prompt update of data.
- Designed the **Prisma schema** that generates a **type-safe** database and deployed the database on **PlanetScale**.
- Deployed the project on **Vercel** and enabled automatic fetching from GitHub, enhancing the **CI/CD** process.

Library Management System React.js/Node.js/MySQL/git

Mar. 2023 – Apr. 2023

- Developed a user-friendly UI with **React.js**.
- Designed the table structure of the database to make it follow the **Fourth Normal Form**.
- Built **RESTful APIs** with **Node.js** allowing the front end to perform **CRUD** operations.

MyMathApp.com TypeScript/JavaScript/React.js/Express.js/Node.js/MongoDB/git/Docker

Aug. 2022 – Dec. 2022

- Led a team of five to develop under the **Agile Development Framework** as **Scrum Master**.
- Refactored legacy code and enhanced authentication flow with **Google OAuth 2.0 authentication**.
- Implemented **MongoDB** infrastructure to store relevant data of the website and users.

NachOS C/C++/Linux

Sep. 2020 – Jan. 2021

- Implemented a file system to support the open/write/read/close of files, file I/O system calls, and larger file sizes.
- Refactored the memory management system to support multi-programming.
- Implemented a multilevel feedback queue scheduler with an aging mechanism.

Smart Restaurant Python/Selenium/SQL/Pandas/NumPy/HTML/CSS/JavaScript/Flask

Jun. 2020 – Dec. 2020

- Surpassed previous data crawling limits and gleaned **14.6 million comments** for **4,700+ restaurants** in Taiwan from Google Maps.
- Used **TF-IDF** and **Jieba** to identify potential causes of recent trends and special features of restaurants with 93% accuracy.