

Eric Tsai

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Experience

XFORGE Studio

Aug 2023 – Present

Full-Stack Engineer

United States

- Developed a scalable NFT minting platform with **TypeScript**, **React**, **Next.js**, and **Node.js**, facilitating seamless creation and purchase of over a million digital assets.
- Developed **RESTful APIs** with **Express.js** and **PostgreSQL** database for over 60,000 users.
- Designed and deployed a scalable **JWT**-based authentication, enabling stateless user verification and seamless multi-platform access.
- Developed and executed unit tests using **Jest**, increasing code coverage to 70% and significantly reducing bugs in new feature deployments.
- Integrated **Redux** to manage complex application state across multiple components, improving maintainability.
- Collaborated with product teams and UI/UX designers to analyze requirements, manage API dependencies, and complete engineering projects with significant business impact.

Purchains

Nov 2021 – May 2023

Software Engineer

Taiwan

- Developed news media website using **Next.js**, implementing SEO best practices, which improved search engine visibility and increased rankings by 5 pages
- Designed and implemented scalable **RESTful APIs** using **Python FastAPI** and **MongoDB**, optimizing query performance and enabling seamless integration with third-party services.
- Adopted **Tailwind CSS** for styling, ensuring quick delivery of responsive user interfaces and reducing development time by 30%.
- Integrated OpenAI API to automate content generation and translation, improving article publishing efficiency and reducing manual workload by 70%.
- Develop Cardano stake pool on **AWS EC2** Linux instances, ensuring optimal security and network performance, growing the pool to over \$9 million.

Cardano Foundation

Jan 2023 – Present

Ambassdor

- Organize the first official Cardano Summit and workshop in Taiwan, expanding local blockchain community engagement and establishing Taiwan as a key region for Cardano initiatives.
- Leveraged technical expertise to create educational content, including tutorials, blockchain articles, and dApp manuals, expanding the Mandarin community.

Education

Iowa State University

Jan 2023 - Aug 2024

Master of Computer Engineering

Iowa, United States

National Taiwan University of Science and Technology

Sep 2017 - Jun 2021

Bachelor of Electronic and Computer Engineering

Taipei, Taiwan

Projects

Smart Dispenser

- Integrated **Raspberry Pi** with dispensers to manage access via RFID student cards, reducing water waste by 30% and enhancing health monitoring efficiency.
- Migrated a high-traffic **RESTful API** from **Python** to **Golang** and implemented **MongoDB** for scalable data storage, reducing average request latency by 25% and improving system performance.
- Commercialized and deployed the system with Sinew Technology Co., Ltd., now operational at XinXing Junior High School.

Technical Skills

Languages & Frameworks: JavaScript, Python, Node.js, TypeScript, Haskell, Solidity

Databases: PostgreSQL, MySQL, MongoDB

Tools & Technologies: Blockchain, Git, Linux, Blockchain, AWS, Vercel, Heroku

Web Development: React.js, Next.js, HTML/CSS, Tailwind CSS