

# Eric Tsai

📞 515-715-8890 ✉ [eric248550@gmail.com](mailto:eric248550@gmail.com) [🌐 linkedin.com/eric-tsai-331baa20a](https://www.linkedin.com/in/eric-tsai-331baa20a) [🐙 github.com/eric248550](https://github.com/eric248550)

## Education

---

**National Taiwan University of Science and Technology** Sep 2017 - Jun 2021  
*Bachelor of Electronic and Computer Engineering* Taipei, Taiwan

**Iowa State University** Jan 2023 - Aug 2024  
*Master of Computer Engineering* Iowa, United States

## Experience

---

**AIDEV** Aug 2023 – Present  
*Full-Stack & Blockchain Engineer* *Next.js, React, Node.js, Tailwind CSS, PostgreSQL*

- Developed crypto wallet-based authentication in an NFT minting platform, enhancing security by eliminating manual login methods and reducing user authentication time by 30%.
- Optimized the queueing system in the NFT minting platform, enabling the minting of over 2 million NFTs for 2,500+ users, improving transaction throughput by 40% and reducing wait times during high-traffic periods.
- Developed a verifiable randomness on-chain algorithm in Coinflip DApp, ensuring provably fair outcomes by leveraging blockchain-based randomization, enhancing transparency, and building user trust.

**Purchains** Nov 2021 – May 2023  
*Founding Software Engineer* *React, Node.js, Tailwind CSS, and PostgreSQL, AWS, Linux*

- Managed and deployed a Cardano stake pool on Linux servers, ensuring optimal security and network performance, leading to a 600% increase in assets under management, growing the pool to over \$4 million.
- Developed and launched a news media website, implementing SEO best practices, which improved search engine visibility and increased rankings by 5 pages
- 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.

## Projects

---

**Smart Dispenser** | *Python, Golang, JavaScript, MongoDB, Raspberry Pi, ThingWorx*

- Integrated Raspberry Pi with dispensers to manage access via student ID cards, reducing water waste by 30% and enhancing health monitoring efficiency.
- Migrated a high-traffic RESTful API from Python to Golang, 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