

# I-Sheng (Eason) Chen

PhD Student · Learning Sciences · AI & Blockchain Applications

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## Education

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- **PhD in Human–Computer Interaction** Aug 2023 – May 2028 (expected)  
Carnegie Mellon University, Pittsburgh, PA, USA  
Advisor: Ken Koedinger  
Focus: Learning sciences, educational technologies, learning analytics, generative AI
- **B.S. in Information Science** Sep 2018 – Jun 2023  
National Taiwan Normal University, Taipei, Taiwan  
Major: Learning Sciences  
GPA: 4.12 / 4.3 (3.94 / 4.0)

## Skills

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- **AI & Data**  
PyTorch, TensorFlow, Scikit-Learn, Pandas, Matplotlib, Snorkel, SHAP, GPT-3, SPSS, SmartPLS
- **Blockchain**  
Sui, Aptos, Move, Solidity, Vyper, Hardhat, Brownie, Foundry, Slither, TON, IPFS, Decentralized Identity (DID), NFT
- **Frontend**  
Vue, React, Angular, TypeScript, TensorFlow.js, IndexedDB, Bootstrap, Tailwind, Selenium
- **Backend**  
FastAPI, Flask, Django, Express.js, Next.js, Nuxt.js, GraphQL
- **Database**  
Prisma, MongoDB, PostgreSQL, Redis, LevelDB, Elasticsearch, Weaviate
- **Cloud & DevOps**  
Vercel, Google Cloud Platform, AWS, Azure, Docker, CI/CD, Google APIs, Firebase, Ubuntu, Nginx

## Experience

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- **Mysten Labs** Jan 2024 – Present  
Research Intern (Remote, San Francisco Bay Area)
  - Researched cryptographic UX and blockchain interaction optimization for the Sui ecosystem.
  - Designed AI-based tools to help audit and analyze blockchain smart contracts.
  - Collaborated with Kostas Kryptos on confidential blockchain R&D initiatives.
- **Bucket Protocol** Jun 2023 – Sep 2023  
Summer Researcher, Taipei, Taiwan
  - Assisted in building a large collateralized debt position (CDP) protocol on the Sui Network.

- Developed **GPTutor**, a ChatGPT-powered tool for smart contract code explanation.
  - Secured a 50k grant from the Sui Foundation; work presented at AIED 2023 and CSCW 2023.
  - Led the **Bucket Raffle System** project, winning 1st place at Sui Builder House with a 10k prize.
- **Cohart.com** Jan 2022 – Jun 2023  
R&D Engineer (Part-Time, Remote)
- Researched NFT solutions for art creators and collectors.
  - Developed marketplace functionality including lazy minting and royalty management.
  - Helped teammates design secure and user-friendly blockchain applications.
  - Collaborated remotely with team members from the US, Vietnam, Malaysia, Pakistan, and Türkiye.
- **FiO.one** Jan 2019 – Dec 2022  
R&D Engineer (Part-Time), Taipei, Taiwan
- Optimized blockchain application performance using Merkle-tree-based data structures (results patent pending).
  - Built decentralized identity solutions for education on Ethereum and IOTA.
  - Implemented secure and lightweight on-chain data authentication processes in production.
- **Research Assistant** Jan 2019 – Jun 2023  
National Taiwan Normal University & National Taiwan University, Taipei, Taiwan
- Studied collaborative online creativity; work published in a Q1 SSCI journal (*Frontiers in Psychology*).
  - Built GPT-2-based chatbots with emotional and empathetic conversational abilities.
  - Designed integrated data pipelines using Google Cloud APIs, MongoDB, and Pandas.
- **Undergraduate Research Project PI** Jan 2021 – Dec 2022  
Ministry of Science and Technology, Taipei, Taiwan
- Built NLG chatbots generating multiple replies from diverse personalities.
  - Conducted user studies on conversational UX; results published at CHI 2023, CHI 2022, TAICHI 2021, and a WWW 2022 workshop.
  - Student research received **2nd place** in the ACM CHI 2023 Student Research Competition.
- **Google Summer of Code Mentee** Jun 2021 – Sep 2021  
Accord Project (Smart Legal Contracts), Remote
- Researched conversion of textual legal agreements into smart legal contracts using NLP.
  - Collaborated with open-source contributors from the US, UK, and India.
  - Results presented at a POPL 2022 workshop and a WWW 2023 workshop.

## Selected Projects

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- **GPTutor** Paper · Code (examples)  
Open-source AI pair-programming and code-explanation tool built on ChatGPT and LLMs; deployed for smart contract education and used in research published at AIED 2023, CSCW 2023, and Learning@Scale 2024.
- **Buck You (Zero-Knowledge Login & Sponsored Transactions)** Paper  
Designed onboarding flow for blockchain applications on Sui using zero-knowledge login and gas-sponsored transactions to reduce friction for new users.
- **SuiGPT Decompiler & Liquidlink**   
Tooling to decompile Sui Move smart contracts with AI and build ZK Login-based bridges; awarded 2nd place in multiple tracks at Sui Overflow Global Hackathon 2024.

## Selected Publications

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- [1] I-Sheng Chen et al. “Buck You: Designing Easy-to-Onboard Blockchain Applications with Zero-Knowledge Login and Sponsored Transactions on Sui”. In: *arXiv preprint arXiv:2404.03845* (2024).
- [2] I-Sheng Chen et al. “GPTutor: Great Personalized Tutor with Large Language Models for Personalized Learning Content Generation”. In: *Proceedings of the 11th ACM Conference on Learning @ Scale*. L@S ’24. New York, NY, USA: ACM, 2024.
- [3] I-Sheng Chen. “Which Factors Predict the Chat Experience of a Natural Language Generation Dialogue Service?” In: *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems*. CHI EA ’23. Student Research Competition, 2nd Place. New York, NY, USA: ACM, 2023.
- [4] I-Sheng Chen et al. *Additional papers in AIED 2022, TAICHI 2021, WWW workshops, POPL workshop, and other venues*. 2022–2024.
- [5] Cheng-Ling Wu, Yu-Da Su, I-Sheng Chen, et al. “Development and Validation of Interactive Creativity Task Platform”. In: *Frontiers in Psychology* 13 (2022). SSCI, Q1.

## Significant Roles & Community

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- **Sui Ambassador** 2024 – Present  
Organize Sui community events, educate developers, and speak at ecosystem conferences.
- **Ambassador, Hop Aggregator & Bucket Protocol** 2023 – Present  
Support growth, developer outreach, and community education.
- **Founder & Leader, NTNU Google Developer Student Club** Aug 2020 – Jun 2021  
Organized workshops for 50+ students on back-end development, chatbots, and cloud tools.
- **Conference Speaker**  
Gave talks and tutorials at COSCUP, PyCon APAC, SITCON, MOPCON and other events on topics including NLG chatbots, NFT marketplaces, Snorkel-based data labeling, Sui blockchain applications, and student research.

## Awards & Hackathons

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- CMU Open-Source Office Fellowship, supported by the Alfred P. Sloan Foundation (2024).
- Sui Foundation Academic Research Award (2024 Q1, Q2, Q3).
- 2nd Place, ACM CHI 2023 Student Research Competition.
- Five Virtue Award, NTNU Graduation Ceremony (2022); Dean’s List & Excellent Student Award (2021).
- 2nd Place, Sui Overflow Global Hackathon (Infra & Tooling; ZK Login), 2024; 2nd Place, EthDenver Hackathon 2024 (SolidityGPT).
- 1st Place, Sui Builder House Kyoto 2023 (Bucket Raffle System); 1st Place, TON Hackathon Taipei 2023 (TonSplitter-Bot); 3rd Place, Aptos Hackathon Seoul 2023 (InBond).
- Honorable Mention, LINE Application Hackathon 2022 (Accompany AI Chat); Special Award, NASA Space Apps Challenge Taipei 2019 (Webb with Us).

- Mensa Member (top 1% IQ).

## References

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- Available upon request.