

# I-Sheng (Eason) Chen

Yunhe Street, Daan District, Taipei, Taiwan  
eason.tw.chen@gmail.com | (+886) 966-597-860  
LinkedIn.com/in/EasonC13 | GitHub.com/EasonC13

## EDUCATION

---

- 2018 – 2023    **Bachelor of Information Science**  
**National Taiwan Normal University**, Taipei, Taiwan
- Major in Learning Sciences (learn how to learn)
  - GPA 4.12 / 4.3 (or 3.94 / 4.0)

## RESEARCH EXPERIENCE

---

- 2019 - now    **Research Assistant** (for 8 professors)  
**National Taiwan Normal University & National Taiwan University**, Taipei, Taiwan
- Researched how people produce innovative ideas together online, results to Q1 SSCI journal
  - Built NLP chatbots with emotional and empathetic conversational abilities by GPT-2
  - Designed integrated data transfer pipeline by Google Cloud APIs, MongoDB, and Pandas
- 2021 - 2022    **Undergraduate Research Project Principal Investigator**  
**Ministry of Science and Technology**, Taipei, Taiwan
- Researched Building Natural Language Generation Chatbots which feature multiple-replies from diverse personalities. Then evaluate the user experience of different designs.
  - Results published to CHI 2022, TAICHI 2021, and workshop of WWW 2022 as paper
- 2021    **Mentee**  
**Google Summer of Code**, Remote
- Contributed to Accord Project (an open source framework of Smart Legal Contracts)
  - Researched on Conversion of Text Legal Agreements into Smart Legal Contracts using NLP
  - Co-work with various open-source contributors from US, UK, and India

## WORK EXPERIENCE

---

- 2022 - now    **R&D Engineer**  
**Cohart.com**, Part-time, San Francisco Bay area (Remote)
- Research on Non-fungible token (NFT) Solutions for Art Creators
  - Work on NFT and Marketplace which features Lazy-Minting and Royalty Management
  - Educate colleagues on developing secure and user friendly Blockchain applications
  - Co-work remotely with teammates from US, Vietnam, Malaysia, Pakistan, and Türkiye
- 2019 - 2022    **R&D Engineer**  
**FiO.one**, Part-time, Taipei, Taiwan
- Optimized Blockchain application performance with Merkle Tree, results are patent pending
  - Built Blockchain Applications with Decentralized Identity in Education on Ethereum and IOTA
  - Implemented secure and lightweight on-chain data authentication process on the product

## PROGRAMMING SKILLS

---

- **AI & Data:** PyTorch, TensorFlow, Scikit-Learn, Pandas, Matplotlib, Snorkel, SHAP, GPT-3, SPSS, SmartPLS
- **Blockchain:** Solidity, Vyper, Move, Hardhat, Brownie, Foundry, Slither, IOTA, Bitcoin, TON, IPFS, DIDs, NFT
- **Frontend:** Vue, React, Angular, TypeScript, Tensorflow.js, IndexedDB, Bootstrap, Tailwind, Selenium
- **Backend:** FastAPI, Flask, Django, Express.js, Next.js, GraphQL
- **Database:** MongoDB, PostgreSQL, Redis, LevelDB, Elasticsearch, Weaviate
- **Cloud & Server:** GCP, AWS, Azure, Docker, CI/CD, Google APIs, Firebase, Ubuntu, Nginx

## JOURNAL PUBLICATIONS

---

- **Chen, E.**, Tseng, Y.-H. Design and Evaluate Natural Language Generation Chatbot with Multiple Replies and Custom Personality. Paper currently under review at Sensors (SCI, IF = 3.84, Q1)
- Wu, C.-L., Su, Y.-D., **Chen, E.**, Chen, P.-Z., Chang, Y.-L. & Chen, H.-C. (2022). Development and Validation of Interactive Creativity Task Platform. Frontiers in Psychology, 13, Article 954946. (SSCI, IF = 4.23, Q1)

## ACADEMIC CONFERENCES PERSENTATIONS

---

- **Chen, E.**, Roche, N., Tseng, Y. H., Hernandez, W., Shangguan, J, & A, Moore. (2023/05). Conversion of Legal Agreements into Smart Legal Contracts using NLP. Paper will be appeared at Workshop on Natural Language Processing for Knowledge Graph Creation in conjunction with The Web Conference (WWW'23)
- **Chen, E.** (2023/04) Which Factors Predict the Chat Experience of a Natural Language Generation Dialogue Service? Paper will be appeared at Student Research Competition in Conference on Human Factors in Computing Systems Extended Abstracts (CHI EA 2023).
- **Chen, E.**, Tseng, Y.-H., You, A., Lo, K.-P., Lin, C. (2022/07) Preliminary Design of an AI Service to Assist Self-regulated Learning by Edge Computing. Paper published at International Conference on Artificial Intelligence in Education (AIED 2022).
- **Chen, E.**, Tseng, Y.-H. (2022/04). A decision model for designing NLP applications. Paper published at the User-Centered NLP workshop in Companion Proceedings of the Web Conference (WWW 2022).
- **Chen, E.** (2022/04). The Effect of Multiple Replies for Natural Language Generation Chatbots. Paper published at Student Research Competition in Conference on Human Factors in Computing Systems Extended Abstracts (CHI EA 2022).
- Roche, N., Hernandez, W., **Chen, E.**, Siméon, J., & Selman, D. (2022/01). Ergo--a programming language for Smart Legal Contracts. Paper presented at the Programming Languages and the Law workshop at Principles of Programming Languages Conference (POPL 2022).
- **Chen, E.**, Tseng, Y.-H., & Lo, K.-P. (2021/11). Focus Plus: Detect Learner's Distraction by Web Camera in Distance Teaching. Paper presented at Taiwan National Chair Professorship Academic Series: Teaching and Learning in Pandemic Era.
- **Chen, E.** & Tseng, Y.-H. (2021/07). A chatbot platform that allow custom avatars and emotions and can provides multiple replies. Demo presented at the Taiwan Computer-Human Interaction Conference (TAICHI 2021)
- **Chen, E.**, Tseng, Y.-H., Chiou, G.-L., & Yuan, C.-W. T. (2021/07). How the numbers of replies and avatars influence the user experience in Natural Language Generation Chatbot. Paper published at the Taiwan Computer-Human Interaction Conference (TAICHI 2021).

## COMMUNITY AND PUBLIC SPEAKING EXPERIENCE

---

### NTNU Google Developer Student Club (NTNU GDSC)

- Founder and Leader (2020/08 – 2021/06)
- Hosted workshops for 50+ students to enhance students' developer skills on back-end and chatbot

### Mobile Open Platform Conference (MOPCON)

- 2022/10 - Speech: Focus, lets AI record and analyze your computer usage

### PyCon APAC 2022

- 2022/09 - Tutorial: Let's Issue NFT by Brownie in 90 mins

### Students' Information Technology Conference (SITCON)

- 2022/09 - Speech: As a student researcher, how show what you are made of?
- 2021/09 - Speech: How to raise an NLP AI Chatbot?
- 2020/08 - Speech: Can I use Python to control my computer?

### Conference for Open Source Coders, Users and Promoters (COSCUP)

- 2022/07 - Speech: About NFT Marketplace you should know
- 2022/07 - Speech: How is it going at Google Summer of Code?
- 2022/07 - Speech: Using Snorkel to Label and Augment your Data
- 2021/08 - Speech: The user experience design on Natural Language Generation Chatbot
- 2021/08 - Speech: The changes, advantages and challenges of IOTA Chrysalis Update
- 2021/08 - Forum: Current status and potential future of Information Education at Taiwan

## HONORS AND AWARDS

---

### Academic

- Five Virtue Award at NTNU Graduation Ceremony (2022)
- Dean's List at NTNU (2021)
- Excellent Student Award and Scholarship at NTNU (2021)

### Ccommunities

- Young Inspirers at PyCon APAC (2022)
- 2nd Place at Hacks In Taiwan Conference (HITCON) 2021 Malware Playground Competition
- 1st Place in the NTNU Freshman Oral Expression Competition (2019)
- Mensa Member (1% IQ)

### Hackathons

- 2019 NASA Space Apps Challenge Taipei: Special Award
- 2022 Aptos Hackathon Seoul: 3<sup>rd</sup> place in tooling track with InBond
- 2022 TON Hackathon Taipei: 1<sup>st</sup> place with TonSplitterBot