

# I-Sheng (Eason) Chen

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## EDUCATION

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- 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

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- 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

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- 2022 - now    **R&D Engineer**  
**Cohart.co**, Part-time, Remote
- Work on NFT and Marketplace which features Lazy-Minting and Royalty Management
  - Issue NFT for AI Generated Artwork creators on Ethereum and Aptos
  - Educate colleagues on developing secure and user friendly Blockchain applications
  - Co-work remotely with teammates from US, Vietnam, Malaysia, Pakistan, and Türkiye
- 2019 - 2021    **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

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

## JOURNAL PUBLICATIONS

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- **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

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- **Chen, E.,** Tseng, Y.-H., Huang T.-R. Which factors influence the chatting experience of a Natural Language Generation dialogue service? A Structural Equation Modeling perspective. Paper currently under review at Conference on Computer-Supported Cooperative Work and Social Computing (CSCW).
- **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).
- **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).
- **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).
- **Chen, E.,** Roche, N., Tseng, Y. H., Hernandez, W., & Shangguan, J. (2022). Conversion of Legal Agreements into Smart Legal Contracts using NLP. Technical Report at Google Summer of Code 2021.
- 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).
- **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)
- **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).

## COMMUNITY AND PUBLIC SPEAKING EXPERIENCE

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### 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

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### 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)