Eason Chen

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EDUCATION

Bachelor of Information Science at National Taiwan Normal University (NTNU)　　Expected 2023/01
- Major in Learning Science (learn how to learn)　　Taipei, Taiwan
- GPA 4.12/4.3

RESEARCH EXPERIENCE

Ministry of Science and Technology　　2021/06 - 2022/02
Undergraduate Research Project Principal Investigator　　Taipei, Taiwan
- Researched on Building Natural Language Generation Chatbots which features multiple-reply and custom avatars with chosen emotion. Then compare the user experience of different designs
- Results published to CHI 2022, TAICHI 2021, and workshop of WWW 2022 as paper

Google Summer of Code　　2021/05 - 2021/08
Mentee, Contributed to Accord Project (Framework of Smart Legal Contracts)　　Online
- Researched on Conversion of Raw Text Legal Agreements into Smart Legal Contracts using NLP
- Co-work with various open-source contributors from US, UK, and India

National Taiwan Normal University & National Taiwan University　　2019/04 - Present
Research Assistant　　Taipei, Taiwan
- Developed and evaluated interactive creativity task platform, results submitted to SSCI journal
- Built NLP chatbots with emotional and empathetic conversational abilities by GPT-3 and BERT
- Designed Integrated Data Export Pipeline by Google Cloud APIs, export data as PLS-SEM statistics input

WORK EXPERIENCE

Cohart.co　　2022/04 - Present
Blockchain R&D Engineer, Part-time　　Remote
- Co-work with teammates from Vietnam, Malaysia, Türkiye, and US
- Research and Develop on Non-fungible token (NFT) Solutions for Art Creators on Ethereum Blockchain
- Educate colleagues on tips and principles for developing Blockchain applications

FiO.one　　2019/06 - 2021/12
R&D Engineer, Intern and Part-time　　Taipei, Taiwan
- Built easy-to-use Blockchain Applications on Ethereum and IOTA
- Received Best Intern Award for my implementation of data authentication process on FiO's product
- Researched on Blockchain Performance Optimization and Cloud Solution, results are patent pending

PROGRAMMING SKILLS

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

LANGUAGES

- **Chinese (Mandarin)**: Native speaker
- **English**: Fluent (TOEFL score 102)

HONORS AND AWARDS

- Young Inspirers at PyCon APAC (2022)
- Five Virtue Awards at NTNU Graduation Ceremony (2022)
- Mensa Member (1% IQ)
- Dean's List at NTNU (2021)
- Excellent Student Award and Scholarship at NTNU (2021)

COMMUNITY & PUBLIC SPEAKING EXPERIENCE

PyCon 2022 APAC
- 2022/09 - Tutorial: Let's Issue NFT by Brownie in 90 mins (Expected)

Students' Information Technology Conference (SITCON)
- 2022/09 - Talk: As a student researcher, how show what you are made of? (Expected)
- 2021/09 - Talk: How to raise an NLP AI Chatbot?
- 2020/08 - Talk: Can I use Python to control my computer?

Conference for Open Source Coders, Users and Promoters (COSCUP)
- 2022/07 - Talk: About NFT Marketplace you should know (Expected)
- 2022/07 - Forum: How is it going at Google Summer of Code? (Expected)
- 2021/08 - Talk: The user experience design on Natural Language Generation Chatbot
- 2021/08 - Talk: The changes, advantages and challenges of IOTA Chrysalis Update
- 2021/08 - Forum: Current status and potential future of Information Education at Taiwan

NTNU Google Developer Student Club (NTNU GDSC)
- Founder and Leader (2020/08 – 2021/06)
- Hosted workshops for 50+ students about back-end development and chatbot

PUBLICATIONS

- **Chen, E.**, Tseng, Y.-H., You, A., Lo, K.-P., Lin, C. (2022) Preliminary Design of an AI Service to Assist Self-regulated Learning by Edge Computing. Paper will present at International Conference on Artificial Intelligence in Education 2022 (AIED '22)

- **Chen, E.**, Tseng, Y.-H. (2022). A decision model for designing NLP applications. Paper presented at the User-Centered NLP workshop at ACM The Web Conference (WWW '22).

- **Chen, E.** (2022). The Effect of Multiple Replies for Natural Language Generation Chatbots. Paper present at Student Research Competition in Conference on Human Factors in Computing Systems Extended Abstracts (CHI EA '22).

- Roche, N., Hernandez, W., **Chen, E.**, Siméon, J., & Selman, D. (2022). 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). Focus Plus: Detect Learner's Distraction by Web Camera in Distance Teaching. Paper presented at the 2021 National Chair Professorship Academic Series: Teaching and Learning in Trans - pandemic Era: Idea Innovation and Practice Transformation.

- **Chen, E.**, & Tseng, Y.-H. (2021). A chatbot platform that allow custom avatars and emotions and can provides multiple replies. Demo at the Taiwan Computer-Human Interaction Conference (TAICHI).

- **Chen, E.**, Tseng, Y.-H., Chiou, G.-L., & Yuan, C.-W. T. (2021). How the numbers of replies and avatars influence the user experience in Natural Language Generation Chatbot. Paper presented at the Taiwan Computer-Human Interaction Conference (TAICHI).