

PERSONAL INFORMATION

I-Tsun Cheng

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WORK EXPERIENCE

20/02/2019–Present

CoFounder & CTO

Refibre Limited, Hong Kong (China)

- Managed the company and responsible for the development & maintenance of online e-commerce platform
- Won Top 6 in HKUST Sino One Million Dollar Entrepreneurship Competition and funding

25/08/2019–Present

Engineering Student Ambassador

School of Engineering at HKUST, Hong Kong (China)

- publicizing information about School of Engineering at HKUST to secondary school students from all over the world

01/07/2019–15/09/2019

Software developer

ECE Department of HKUST, Hong Kong (China)

- Worked with postgraduate students under the HKUST Human Language Technology Center
- Developed an interactive and responsive website that shows 3D visualization of state-of-the-art Chinese word embeddings from their research and can fetch K-nearest neighbor words of any word or phrase in the Chinese dictionary with several filter options
- Utilized web technologies, including Javascript, ThreeJS, ExpressJS, Bootstrap, Flask, etc.

01/01/2019–15/03/2019

Assistant Researcher

Dayta AI, Hong Kong (China)

- Designed a Simplified to Traditional Chinese Translator algorithm that proposes a sub-word segmentation model which relies on the two Chinese language models
- Achieved an overall translation accuracy of 98% which beats all of the top available models
- Paper accepted by NAACL Student Research Workshop, top conference in NLP

27/12/2018–07/02/2019

Machine learning Engineer

Dayta AI, Hong Kong (China)

- Scraped over 100K articles from 5+ online HK news sources for training dataset
- Implemented algorithm that computes the similarity of any two articles using jieba tokenizer and Gensim
- Assisted in building a news paraphrasing NLP system using best-performing tokenization methods and neural networks

01/08/2018–30/09/2018

Software developer

Froshie, Kuala Lumpur (Malaysia)

- Designed and developed a simple website for the startup that aims to create a centralized platform for students applying Asian universities

- Implemented OCR technology to scan IB certificates

EDUCATION AND TRAINING

- 01/09/2018–Present **University Degree in Computer Science**
Hong Kong University of Science and Technology, Hong Kong (China)
- Now pursuing a degree in Computer Science
- 06/07/2019–21/07/2019 **Certificate in Entrepreneurship (Entrepreneurial Ideation Exchange Program)**
Macquarie University, Sydney (Australia)
- Learned about entrepreneurship marketing and expanded my network by socializing with startup founders
- Came up with an innovative technology solution to make the metro system in Sydney and Hong Kong more sustainable according to the UN Sustainable Development Goals, and represented by team to pitch our idea and business model to notable judges in Sydney
- Made an interactive, visually appealing website that can perform object detection (human detection) and live counting from webcam, as part of our idea. Used TensorflowJS for building the object detection model and ReactJS, MaterialUI, Recharts for the platform
- Pitched our demo to entrepreneurship directors in HKUST and won top 2 out of all teams by selective voting
- 01/08/2018–15/08/2018 **Certificate in Data Science**
National Taiwan University, Taipei (China)
- Took the Python Data Science Course
- learned about web scraping with BeautifulSoup4, data analysis using Numpy and Pandas, and fundamentals of machine learning
- completed all assignments
- 01/09/2008–30/06/2018 **High School Diploma (and IB Diploma)**
Shanghai High School International Division, Shanghai (China)
- Completed primary, middle, and high school
- completed IB diploma in the last two years of high school with a score of 42/45 (world top 2%)
- 23/01/2016–08/02/2016 **Certificate of Completion (Environmental Chemistry, Soil Chemistry, Engineering Physics)**
California Institute of Technology, Pasadena (United States)
- Learned about soil and water quality through practical experiments, e.g. spectroscopy, color vision and mixing, colorimeter, beer's law, dye content of beverages, concentrations of ammonia and iron in water, crystal growth and phase transitions, etc.
- Successfully built a powered kite out of woodboard and micro-controller that can be remotely controlled and fly stably against the wind.

PERSONAL SKILLS

- Mother tongue(s)** Chinese, English
- Communication skills** - good communication skills gained through my experience as CoFounder and also my past experiences in collaborating with my teams in various competitions
- Organisational / managerial skills** - leadership (currently acting as Co-Founder and CTO in my startup, Refibre, of six people)
- good team-leading skills (leading and managing the technology team of Refibre)

- good communication and organizational skills (leading and communicating with members in different competitions, e.g. hackathons, case competitions, etc.)

Job-related skills

- Programming languages: Python, Java, C++, C, JavaScript, Arduino, Visual Basic, etc.
- Machine Learning Frameworks: Pytorch, Keras, Tensorflow, Numpy, Pandas, etc.
- Web Frameworks: HTML/CSS, Bootstrap, JQuery, ReactJS, NodeJS, ExpressJS, MongoDB, Flask, etc.
- Tools: Git, Linux, etc.
- Have experience in full-stack web development, android development

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

ADDITIONAL INFORMATION

Honours and awards

- Champion, HKGCC LVMH Business Case Competition 2019, winning a free trip to LVMH's headquarters in Paris (<https://www.agorize.com/en/challenges/hkgcc-business-case-competition-2019/pages/results?lang=en>)
- Travel Grants for Hack the North 2019 (Accepted to this prestigious hackathon and being awarded travel reimbursements)
- Top 6 Team, Exhibition Award, Student Team Award, Focus Area Award in Environment and Sustainability for HKUST Sino One Million Dollar Entrepreneurship Competition (Won cash awards for our startup team)
- Travel Grants for NAACL 2019 (Being invited to the NAACL workshop to present our Natural Language Processing research paper and engage in seminars)
- First Class Honors (awarded for having top CGA in class)
- University Entrance Scholarship (awarded full-tuition for first year)

Publications

- Learn Languages First and Then Convert: Towards Effective Simplified to Traditional Chinese Conversion (Accepted by NAACL Student Research Workshop 2019 non-archival track)
- Myers-Briggs Personality Classification and Personality-Specific Language Generation Using Pretrained Language Models (on arxiv: <https://arxiv.org/abs/1907.06333>)

Projects

- COMP 4461 Human-Computer Interaction Projects (<https://itsuncheng2000.wixsite.com/mysite>)
- Research on Generative Adversarial Network and Object Localization for Fashion Trend Prediction and Style Inspiration (https://github.com/itsuncheng/fashion_gan/blob/master/COMP_4901J_Final_Report%20FULL.pdf)
- Club Management Platform (Connect) (<https://github.com/itsuncheng/oclubs>)
- Food-Recognition Health Mobile Application (<https://github.com/itsuncheng/SnapFood>)
- Research on Convolutional Neural Networks for Image Recognition (https://github.com/itsuncheng/hyperparameter_optimization/blob/master/Extended%20Essay%20FINAL.pdf)
- AngelHack Taipei 2019 (<https://github.com/itsuncheng/Celerity>)
- HackNTU Taipei 2017 (<https://github.com/itsuncheng/pharmacist>)

Courses

- OOP & Data Structures, Discrete Math, Linear Algebra, Multivariable Calculus, Probability, Deep

Learning for Computer Vision, Deep Learning for NLP, Algorithms, Human-Computer Interaction