Chow Siew Yeng

LANGUAGE ENGINEER · COMPUTATIONAL LINGUIST

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Experience

Apple
Singapore

LANGUAGE ENGINEER (CONTRACTOR)
Mar. 2022 - ongoing

- Collaborated with global teams to improve Siri's proficiency in Singapore English and localised user experience.
- Worked as a subject matter expert, creating guidelines that drive locale-specific phonetic transcription for ASR, reducing speech recognition error rates in the region.
- Analysed speech model data to identify utterance misrecognitions and engineer data-driven augmentations to the model, raising end-to-end performance.
- Implemented Docker to do continuous testing and ensure quality of training dataset used for training new models.

A*STAR (Institute of Higher Performance Computing and Institute of Infocomm Research
Singapore

INTERN
Jan. 2021 - Mar. 2021

- Trained CNN and MLP models to map facial landmarks to 7 different emotions to enhance online learning in the current context.
- Researched on Discourse Representation Structure and evaluation benchmarks in Natural Language Inference (NLI), offering linguistic expertise to a query answering project.

Nanyang Technological University
Singapore

TEACHING ASSISTANT
Aug. 2020 - Dec. 2020

- Delivered weekly tutorials on semantics and pragmatics for over 50 undergraduates.
- Strategised lesson flow, guided discussion and promoted understanding of linguistic concepts.

Nanyang Technological University
Singapore

RESEARCH ASSISTANT
Dec. 2017 - Mar. 2021

- Analysed data consisting mostly of grammatically incorrect sentences to gather data regarding English grammar and improve a treebanking software for parsing texts.
- Supervised adjudication between various pairs of annotators to facilitate inter-annotator agreement and quality of gold data.

Worldwide Opportunities on Organic Farms
Galway, Ireland

VOLUNTEER
Aug 2019

- Learnt about sustainable agriculture and living.
- Handled daily farm operations including harvesting and planting.

Lions Befrienders
Singapore

RESEARCH INTERN
May. 2018 - Jul 2018

- Co-developed and executed a health-related project of encouraging 20 socially isolated elderly persons to pursue an active lifestyle.
- Designed, translated, and carried out Mandarin/English questionnaires tracking activity and motivation of the elderly.
- Conducted literature review and research on befriending mechanisms to improve volunteer training.

Skills

NLP NLTK, Regex, Deep Learning with MLP and CNN
Programming Python, React Native, SQL, LaTeX, Bash

Languages

Proficient Cantonese (speaking), English, Mandarin
Intermediate German
Basic Japanese

Education

Nanyang Technological University
Singapore

M.A. (RESEARCH) IN COMPUTATIONAL LINGUISTICS
Jan. 2020 - Dec. 2021

- GPA: 5.00/5.00.
- LREC 2022 publication: Singlish Where Got Rules One?.

Technische Universität Dresden
GERMAN SUMMER COURSE

Online

Jun 2021

- Scholarship recipient under the German Academic Exchange Services (DAAD).

Nanyang Technological University
B.A. IN LINGUISTICS AND MULTILINGUAL STUDIES

Singapore

Aug. 2015 - Jun. 2019

- Graduated with Honours (Highest Distinction).
- Minor: Mathematics.

Kansai Gaidai
ASIAN STUDIES PROGRAM

Osaka, Japan

Jan. 2017 - Jun. 2017

- Educated on the appreciation of Japanese art forms and lifestyle.
- Analysed justice systems with focus on America and Japan.

Projects

Nanyang Technological University
A COMPUTATIONAL GRAMMAR OF SINGLISH USING HPSG

Singapore

Jan. 2020 - Dec. 2021

- Developed a formal grammar of Singlish that can generate syntactic trees and DMRS from input sentences.
- Increased accuracy in parsing Singlish sentences from 46.7% to 70.0%.
- Presented findings and international DELPH-IN summits and LREC 2022.

TiMi Studio and Tencent
GREEN GAME JAM

International (online)

Jul. 2021 - Aug 2021

- Top 16 out of 200 teams globally.
- Created an original game to the theme of environmental conservation.

Defence Science and Technology Agency (DSTA)
BRAINHACK

Singapore

Jun 2021

- Top 8 of over 40 participating university teams.
- Implemented neural network and used filtered data, optimising model for Computer Vision challenge.

Extracurricular Activity

NTU Welfare Services Club
MATHS TUTOR

Singapore

Sep. 2018 - Apr. 2021

- Mentored ITE students in mathematics weekly.

NTU GEM Club
CLUB AMBASSADOR

Singapore

Aug. 2016 - May. 2019

- Welcomed and guided exchange students around Singapore.
- Buddy to a group of 12 exchange students and arranged group outings to foster bonding and help them feel more comfortable away from home.

NTU Hall 1
MAIN COMMITTEE MEMBER AND INTER-HALL REPRESENTATIVE

Singapore

Aug. 2015 - Jan. 2017

- Represented hall in Inter-Hall Cheer Competition and Inter-Hall Recreational Games.
- Planned and executed an annual 3-day camp for over 50 underprivileged children over 4 months of preparation.

Courses

2022	**Mathematics for Machine Learning Specialization**, Coursera
2022	**Natural Language Processing with Probabilistic Models**, DeepLearning.AI
2022	**Natural Language Processing with Classification and Vector Spaces**, DeepLearning.AI
2021	**11th Lisbon Machine Learning School**, Instituto Superior Técnico