TAN HAO HAO

Final-year Computer Science undergraduate.
Diverse interest and experience across software engineering, data science, machine learning and technical writing.

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Experience

ViSenze | *Software Engineering Intern*
Jul 2018 – Oct 2018 | Singapore

- Part of the **Data Pipeline team** to support data requirements for business products & model training.
- Enhanced features for the internal **Grabber** platform for high performance **automated web scraping.**

PayPal | *Software Engineering Intern*
Jan 2018 – Jun 2018 | Singapore

- Increased **functional testing coverage** in Limits service by **200%** across products and countries.
- Revamped functional testing framework for Limits service to fix FT known failures.

Temasek Laboratories | *Research Assistant*
Feb 2017 – Jul 2017 | Singapore

- Designed a **phonetic-based converter** for spelling variants normalization of Singlish concepts.
- Expanded **Singlish SenticNet**, a WordNet-like database by crowd-sourcing for Singlish concepts.

Selected Projects

AI Music Composition using Neural Networks
Self-Initiated Final Year Project

- Working on a **genre-based, music theory aware AI music composer** that could serve as a tool of inspiration for human composers.

Automated Negotiation Agents Competition
Undergraduate Research Project

- 2nd place of the Diplomacy Game League, a strategy board game mimicking wartime scenarios that utilizes automated negotiation. **Invited to IJCAI 2017 for presentation.**

World Cup 2018 predictions using ML techniques
Mini Data Science Hobby Project

- Devised and compared on different models to predict the winning probabilities of each soccer team in World Cup 2018.

Education

Nanyang Technological University, Singapore
Aug 2015 – Jul 2019 (Expected)
B.Eng in Computer Science
CGPA: 4.88/5.00
Dean's List for 2015 & 2016

The Chinese University of Hong Kong, HKSAR
Sep 2017 – Dec 2017
Exchange Programme

Selected Coursework

Advanced Topics in Algorithms
Artificial Intelligence
Information Retrieval
Natural Language Processing
Neural Networks
Software System Analysis Design

Skills

Programming:
Python, Java, JavaScript, C, C++

Web Development
HTML5+CSS3, PHP, Bootstrap, jQuery, Flask, jinja2

Research & Analytics
Keras, TensorFlow, Pandas, Scikit-learn, LaTeX

Societies

NTU Piano Ensemble
Jun 2016 – Jan 2017
Vice Chairperson