

TAN HAO HAO

Final-year Computer Science undergraduate.

Passionate about creating social good with AI, Machine Learning and software engineering skills.

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EXPERIENCE

Data Science & AI Research Centre @ NTU |

Student Research Assistant

JAN 2019 – PRESENT | SINGAPORE

- Build applications utilizing in-house AI technologies including **emotion detection**, **sentiment analysis**, etc.

ViSenze | *Software Engineering Intern*

JUL 2018 – OCT 2018 | SINGAPORE

- Part of the **Data Pipeline team** to support data requirements for business products & model training.
- Improved efficiency and robustness for Grabber, an internal high performance **automated web scraper**.

PayPal | *Software Engineering Intern*

JAN 2018 – JUN 2018 | SINGAPORE

- Part of the **Risk Business Obligations** team to handle compliance regulations across transactions.
- Revamped functional testing framework to **fix critical failures** and **increased overall coverage by 200%**.

Temasek Laboratories | *Research Assistant*

FEB 2017 – JUL 2017 | SINGAPORE

- Worked on **sentiment analysis in Singlish**. Tasks include data crowdsourcing, phonetic-based variant normalization, etc.

SELECTED PROJECTS

- **AI Music Composition using Deep Learning** - Proposed a novel **chord-based generation** approach for deep learning music composition. **Self-initiated final year project**.
- **Automated Negotiation Agents Competition** - 2nd place of the Diplomacy Game League, a strategy board game utilizing automated negotiation techniques. **Video presentation given at IJCAI 2017 Workshop**.
- **frenly™** - Chrome extension using NLP to **tackle internet toxicity** by censoring mean comments and warning toxic post writers. **Winners of Top 8 Prize at NUS Hack&Roll 2019**.

EDUCATION

Nanyang Technological University, Singapore

AUG 2015 – JUL 2019 (EXPECTED)

> B.Eng in Computer Science

> CGPA: 4.89 / 5.00

> Dean's List (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

Machine Learning

Natural Language Processing

Software System Design

SKILLS

Programming

Python, Java, JavaScript, C#

Development

HTML5+CSS3, Flask, PHP,

Bootstrap, jQuery, Unity

Research & Analytics

TensorFlow, Keras,

Pandas, Scikit-learn, NLTK

CO-CURRICULARS

NTU Piano Ensemble

JUN 2016 – JUN 2017

Vice Chairperson

Asia Pacific Intervarsity Chinese Debate Competition

JAN 2017 – JUL 2017

Adjudicator & Organizer