TAN HAO HAO

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EDUCATION

• Nanyang Technological University, Singapore

August 2015 - July 2019

B.Eng in Computer Science, CGPA 4.88/5.00, Dean's List (AY2015, AY2016)

- o **Selected Coursework:** Algorithms & Data Structures, Software Engineering, Information Retrieval, Databases, Operating Systems
- Co-curricular Activities: Vice Chairperson, NTU Piano Ensemble; Adjudicator, 8th Asia-Pacific Intervarsity Chinese Debate Tournament; Best Peer Tutor Award, School of Computer Engineering

• The Chinese University of Hong Kong, HKSAR

September 2017 — December 2017

Exchange Programme, Computer Science

o Selected Coursework: Advanced Algorithm Design, Artificial Intelligence

EXPERIENCE

• PayPal Singapore - Software Engineer Intern

January 2018 – June 2018

Tech Stack: Java Spring, RESTful APIs, SQL, Jenkins, Git

- Work as back-end engineer in Risk Business Obligation team to develop business solutions for enforcing compliance over fund transactions online
- Temasek Laboratories, NTU Research Assistant

February 2017 to July 2017

Project Title: Sentiment Analysis on Singlish (Colloquial Singaporean English)

- o Worked on expanding Singlish SenticNet, a Singlish concept database for sentiment analysis
- O Developed a phonetic-based converter to normalize spelling variants of Singlish concepts
- o Built an information retrieval system to crawl existing online Singlish Dictionary to expand SenticNet

PROJECTS

Automated Negotiation Agents Competition 2017

August 2016 to July 2017

Undergraduate Research Project (URECA)

- o Second place of the Diplomacy Game League, a strategy board game using automated negotiation
- O Designed a heuristic-based negotiation agent using "hostility VS neediness" strategy
- o Invited to the International Joint Conference of Artificial Intelligence (IJCAI 2017) for presentation

Multidisciplinary Design Project

January 2017 to May 2017

Semester Team Project

- Designed a wall-hugging algorithm and an A* search algorithm for a robotic system to run maze exploration and fastest path respectively
- O Utilized Raspberry Pi to coordinate between subsystems including Arduino board and Android remote controller device

Website Development & App Design for Quiz Challenge

June 2016 to January 2017

1st National Tertiary Chinese Reading Competition

- o Built the official website for the competition using Bootstrap framework
- O Designed a login portal for participants to update particulars, view questions and submit answers
- O Designed an interactive program using C++ for Bingo-like Quiz Challenge

TECHNICAL SKILLS

Operating System : Windows, Linux
Languages : Python, Java, C, C++

• Web development : HTML5, CSS3, JavaScript, jQuery, PHP, Bootstrap, Pug (formerly Jade)

• Database and Version Control : MySQL, MS SQL Server, Git

Familiarity in TensorFlow, Scikit-learn, NumPy and Matplotlib