TAN HAO HAO

http://gudgud96.github.io

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Education

Nanyang Technological University, Singapore
Aug 2015 - Jul 2019
B.Eng in Computer Science
Dean's List 2015, 2016
CGPA: 4.88/5.00

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

Courseworks

Advanced Topics in Algorithms
Artificial Intelligence
Software Engineering
Information Retrieval

Links

linkedin.com/in/tan-hao-hao
github.com/gudgud96

Skills

OS
Windows, Linux

Programming
Python, Java, C, C++

Web Development
HTML5, CSS3
jQuery, PHP, Bootstrap, Pug

Database
MySQL, MS SQL Server

Research & Analytics
Keras, TensorFlow,
sklearn, numpy, matplotlib
LaTeX

Experience

PayPal | Software Engineering Intern
Jan 2018 – Jun 2018 | Singapore
- Worked as back-end engineer in Risk Business Obligation team for enforcing compliance over fund transactions
- Fixed 50+ FT known failures in Limits service by revamping the testing framework
- Increased functional testing coverage in Limits service by almost 200% across various products and countries

Temasek Laboratories | Research Assistant
Feb 2017 – Jul 2017 | Singapore
- Expanded Singlish SenticNet, a Singlish concept database by scraping existing online Singlish dictionaries
- Developed a phonetic-based converter to normalize spelling variants of Singlish concepts

Selected Projects

AI Music Composition using Deep Learning Algorithms
May 2018 – Present | Self-Initiated Final Year Project
- Work on designing an agent that composes its own music using recurrent neural networks
- Subtasks of the project include: lyric generation, proposing an evaluation metric on music composed, etc.

Automated Negotiation Agents Competition
Aug 2016 – Jul 2017 | Undergraduate Research Project
- 2nd place of the Diplomacy Game League, a strategy board game utilizing automated negotiation
- Invited to the International Joint Conference of Artificial Intelligence (IJCAI 2017) for presentation

Multidisciplinary Design Project
Jan 2017 – 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

Societies

NTU Piano Ensemble
Jun 2016 – Jan 2017 | Vice Chairperson

8th Asia-Pacific Intervarsity Chinese Debate Tournament
Jun 2016 – Jan 2017 | Adjudicator