HUANG, Po-Wei (George)

+65 8891 3219 | huangpowei22@u.nus.edu | https://georgepwhuang.github.io

EDUCATION

National University of Singapore (NUS) **Aug 2020 – Present**

- BComp in Computer Science With Second Major in Mathematics CAP 4.85/5.00
- Dean's List Fall 2020, Spring 2021
- Focus Area: Algorithm and Theory / Artificial Intelligence

Nanyang Technological University (NTU) **Aug 2019 – May 2020**

- Double Degree in Business and Computing
- BEng in Computer Science CAP 4.91/5.00
- BBus in Business Analytics CAP 4.83/5.00
- Transferred at End of Year 1

WORK EXPERIENCE

School of Computing, NUS **Jan 2021 – Present**

TEACHING ASSISTANT

- Taught Data Structures and Algorithms lab sessions for four semesters
- Provided consultation and pseudocode grading for students

Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC) **Jul 2021 – Sep 2021**

INFORMATION TECHNOLOGY INTERN, EQUIPMENT EDGE COMPUTING TEAM

- Created Dockerized discussion forum for in-house deployment
- Trial tested mechanism for database hosting and connection on Kubernetes for in-house usage
- Adapted access and monitoring dashboard interface for Kubernetes hosted Cassandra database

RESEARCH EXPERIENCE

Neural Logical Structure Recovery in Scholarly Articles **Apr 2021 – Present**

SUPERVISOR: A/P KAN, MIN-YEN (WEB IR/NLP GROUP, NUS)

- Explored neural network usage in transfer learning for logical structure extraction
- Adapted multi-level attention framework for contextual text extraction
- Adapted deep semi-supervised learning techniques for model enhancement

Synthesis and Applications of Porous Bio-Carbon Electric Components **Sep 2018 – May 2019**

SUPERVISOR: PROFESSOR LIN HUNG-PING (DEPARTMENT OF CHEMISTRY, NCKU)

- Tested discharge durability of bio-carbon based aluminum-carbon batteries
- Examined effects of bio-carbon synthesis on capacitance in electric double layer capacitors
- Created RC circuit based capacitance meter for bio carbon super capacitor usage based on Arduino

CO-CURRICULAR ACTIVITIES

NUS Investment Society **Sep 2020 – Jun 2021**

QUANTITATIVE ENGINEER, QUANTITATIVE FINANCE DEPARTMENT

- Conducted analysis on quantitative personal portfolio creation with multi-factored regression

NUS Student for the Exploration and Development of Space **Oct 2020 – May 2021**

SCIENCE SPECIALIST, ROVER TEAM

- Designed drill system and sensor integration for a Mars rover prototype powered by Arduino

NOTABLE PROJECT WORK

O.L.S.E.N.: PyTorch powered training pipeline for logical structure extraction.
TSMC Talk Talk: Discussion forum built at TSMC for in-house deployment on Kubernetes.
Link.me: Java powered insurance client management and meeting scheduling application.
BLARB: Java powered task chat bot for task managing and timekeeping.
A.C.E.: Python powered automated emailer created for SIA hackathon.
NCIS: Python/TKInter powered canteen working hours application.

ADDITIONAL SKILLS AND INFORMATION

Languages: Chinese (Native), English (Professionally Working Proficiency - TOEFL iBT 118/120)
Programming Languages: C/C++, Java, Python, R, SQL (PostGreSQL)
Software Skills: Arduino, Cassandra, Docker, Django, Git/GitHub, Kubernetes, Linux/Unix, PyTorch, Tableau