Chan Luo Qi

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EDUCATION

SUTD-SMU Dual Degree Programme (Undergraduate)

Singapore University of Technology and Design (SUTD)	**Singapore**
	May 2017 – Aug 2021

- Bachelor of Engineering (Computer Science and Design), Honours with Highest Distinction
- SUTD Honours List for Senior Terms (AY 2020/2021)
- SUTD Honours List for Sophomore & Junior Terms (AY 2019/2020)

Singapore Management University (SMU)	**Singapore**
	May 2017 – Aug 2021

- Bachelor of Business Management, Summa Cum Laude – Highest Distinction
- SMU Faculty of Business Dean's List (AY2018/2019)

WORK AND INTERNSHIP EXPERIENCE

DSO National Laboratories (Information Division / Information Exploitation Lab)	**Singapore**
AI Research Engineer – Natural Language Processing (NLP)	**Sep 2021 – Present**

- Active contributor of the NLP research team mentored and led by Dr Chieu Hai Leong
- Research on Entity Linking (EL) on colloquial, low-resource language (Singlish)
- Research on cognitive Artificial Intelligence (AI) applications on NLP

DSO National Laboratories (Information Division / Information Exploitation Lab)	**Singapore**
Elucidation of Chemical Structures	**May 2019 – Aug 2019**

- Augmented part of an automated Machine Learning workflow that elucidates chemical structure from its atomic components
- Implemented Tensor Belief Propagation (TBP) on factor graphs which encapsulated information about the molecule
- Attained top-5 projects of the cohort and presented the project to ~160 participants, including upper management

TECHNICAL DESIGN PROJECTS

Identification of Bacterial from Mass Spectrometry	**Singapore**
SUTD Capstone Project (Project Lead)	**Jan 2021 – Aug 2021**

- Collaborated with expert mentors from DSO National Laboratories in the domain of Natural Language Processing and biochemistry to develop a machine learning model that can identify bacteria from its mass spectrometry
- Lead a team of 6 students of different specialisations in data analysis, model building, and User Interface development
- Develop a classification mode using Graphical Convolutional Neural Networks
- Attained top scores in cohort for the all 4 project reviews

FastCart – A Smart Trolley Checkout System for Supermarkets	**Singapore**
50.001 Intro to Infosystems and Programming (First Prize)	**Sep 2019 – Dec 2019**

- Designed a smart trolley system using an integrated mobile application by using QR codes for scanning items and calibrated weight sensors for item verification
- Developed software for the mobile application using Android Studios
- Attained 1st place among the cohort and was awarded the Mitsubishi Corporation Award

First National Collegiate and International Invitational Tournament on Brain Inspired Computing	**China, Beijing**
and Applications (First Prize)	**May 2018 – Oct 2018**

- Processed more than 500 corpuses of texts which were used to train the machine learning model
- Analysed relationships between Business' Primary typefaces and its mission and vision and confirmed the hypothesis that a business' font correlates to its intended meaning
- Applied Artificial Intelligence to a design application, earning us recognition for creativity and novelty; 1st place among 227 submissions from 47 different institutions

SUTD Open House Design Workshop	**Singapore**
Project Lead	**Dec 2017 – Feb 2018**

- Liaised with School Management and Information System Technology and Design (ISTD) staff in creating 2 separate hour-long workshops that taught attendees basic coding logic using temperature and humidity sensors with Raspberry Pi and Adafruit LED Light strip with an ESP8266 module
- Fabricated hardware casings for light box and Raspberry Pi that were given away to attendees to take home
- Taught 4 design workshops open to public with a team of 8 teaching assistants that garnered commendable feedback

CO-CURRICULAR ACTIVITIES AND LEADERSHIP APPOINTMENTS

Project Ket Noi III (Overseas Community Service Project)　　　　　　　　**Hue City, Vietnam**
IT Curriculum Team, Grade 8 Lead　　　　　　　　　　　　　　　　　　　**Sep 2018 – Dec 2018**
- Designed a 10-lesson curriculum on basic Pascal Programming Language for underprivileged students in Hue City, Vietnam
- Led 10 45-minutes Pascal lessons while managing a team of 11 teaching assistants

SUTD Digital Design and Development Club (3DC)　　　　　　　　　　　　**Singapore**
Vice President　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Jun 2017 – May 2018**
- Organized a 9-week coding workshop series for over 70 peers and juniors, which received good reviews post-event
- Designed curriculum for and taught Python, and Javascript to workshop attendees
- Liaised with school management on organising club workshops, events and student records

Hwa Chong Student's Council　　　　　　　　　　　　　　　　　　　　　**Singapore**
Deputy Faculty Head, Social and Relations Committee　　　　　　　　　　**May 2015 – Jul 2016**
- Organised 7 school-wide events such as Orientation, Mid-Autumn Festival (homecoming) and Open House.
- Conceptualised theme and designed publicity materials for Orientation for 1,200 freshmen
- Liaised with external vendors for merchandise quotations for over 1,200 Orientation goodie bags

Hwa Chong Apollo Faculty　　　　　　　　　　　　　　　　　　　　　　**Singapore**
Deputy Faculty Head　　　　　　　　　　　　　　　　　　　　　　　　　**May 2015 – Jul 2016**
- Led a passionate team of 14 in organizing faculty wide events such as Faculty Outing, pep rallies, and Community Involvement Projects that were widely received by students
- Delivered announcements and presentations in front of audiences up to 2,400 students
- Liased with Faculty teachers in planning and proposing faculty events

ADDITIONAL INFORMATION
- Programming languages: Python, Java, GoLang
- Fluent in English and Mandarin (spoken & written)