Kelvin Wey Han Chan

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EDUCATION

University of Cambridge *Oct 2022 – Jun 2023*

- MPhil Advanced Computer Science (Natural Language Processing)

University of Malaya *Feb 2018 – Feb 2022*

- BEng Electrical (CGPA: 3.97/4.00) (First Class Honours)

Programming Languages/Frameworks: Python, PyTorch, TensorFlow, C++, SQL, Git

NOTABLE PROJECTS

Grammar Error Correction for Code-switched Sentences *Dec 2022 – Jun 2023*

- Generated synthetic code-switched GEC datasets based on linguistic constraints
- Improved performance of edit-based GEC models on code-switched text by 1.57 $F_{0.5}$
- Supervisors: Dr. Zheng Yuan & Dr. Chris Bryant, University of Cambridge

Syntactic Inversion for Zero-shot Cross-lingual NLP in Chatbots *Sep 2020 – Jun 2021*

- Analysed the effects of different language typologies towards the performance of mBERT in a cross-lingual zero-shot setting
- Implemented head-directionality inversion and SVO reordering as a data augmentation method to improve the performance of mBERT by 21.5% and state-of-the-art performance by 3.5%
- Supervisor: Assoc. Prof. Ir. Dr. Chuah Joon Huang, University of Malaya

WORK EXPERIENCE

Data Scientist, Shell *Aug 2023 – Present*

- Support the development of data science and machine learning solutions as part of the Natural Language Processing CC.

Data Science Intern, NXP Semiconductors *Jun 2021 – Oct 2021*

- Reviewed past error logs and technician remarks to identify the impact of hardware issues on test metrics
- Built a time-series regressor to predict the final test first pass yield with a mean absolute error of 0.3% to detect hardware degradation issues
- Integrated the prediction model into an Optimal Plus dashboard to notify technicians about hardware issues 2 test lots in advance, reducing false negatives during the final test phase by 2.46%

Firmware Engineering Intern, Western Digital *Jun 2020 – Sep 2020*

- Developed a web-based visualization tool to help engineers identify bad sectors in Hard Disks, reducing average debugging time for relevant issues by 43.2 minutes
- Collaborated with Scrum team to fix format related bugs and deliver new features for enterprise-grade hard disks worth US$1.7B

Data Science Intern, The Center of Applied Data Science *Jan 2018 – Feb 2018*

- Collected and processed 50k job details from job search sites using Python-based web-scrapper
- Performed data analysis to map the correlation between different skillsets and salaries offered by companies in Malaysia to determine the most highly sought skills in the market

LEADERSHIP EXPERIENCE

Secretary & Chief Communications Officer, Emerging Leaders Asia   *Jun 2021 – Aug 2023*
- Collaborate with 15 aspiring youths to build a CEO-ready talent pipeline all over Asia
- Managed a team of 3 to establish the ELA brand through relationships with university & industrial partners
- Established a bi-monthly newsletter to engage a talent pool of 500 people

Co-founder & Operations Lead, BuddySings   *Jun 2018 – Present*
- Arranged & produced 9 original songs with the goal of spreading happiness through music
- Optimised keywords in social media posts to improve average post reach by 67.9% in 6 months
- Built microsite with Stripe Payment & Google Analytics integration to raise US$10k in funding

Axiata University Leadership Development Program Cohort 8   *Jul 2019 - Aug 2019*
- Selected from approximately 3000 applications to be one of the 45 successful applicants in the 2-week long boot camp
- Developed critical thinking skills and business acumen through business simulations aimed towards shaping young Malaysians into future CEOs
- Awarded Top 12 Leadership Award and 1st Runner Up for the overall business challenge

TRAINING AND CERTIFICATIONS

Natural Language Processing with Classification and Vector Spaces	*deeplearning.ai*
Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization	*deeplearning.ai*
Neural Networks and Deep Learning	*deeplearning.ai*
Deep Learning Fundamentals	*IBM Cognitive Class*
Version Control with Git	*Atlassian*
Agile with Atlassian Jira	*Atlassian*
C++ Programming for Engineers	*Dream Catcher*
AWS Fundamentals: Going Cloud-Native	*Amazon Web Services*
The Fundamentals of Digital Marketing	*Google Digital Garage*