

# Kelvin Wey Han Chan

[kelvin.chanwh@rocketmail.com](mailto:kelvin.chanwh@rocketmail.com) | +44 7856 514849 | [linkedin.com/in/kelvinchanwh](https://www.linkedin.com/in/kelvinchanwh) | London, United Kingdom

## 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 (LREC-COLING 2024)

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 1.23%
- 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: 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 NLP CC.
- Built a pipeline on AzureML for training machine vision models suited for the BrainChip Akida neuromorphic processing platform
- Reduced inference energy usage by 20x without performance loss for image classification tasks through model quantization and neuromorphic processing

### 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-scraper
- 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

---

### **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

### **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
- Manage 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

### **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 1<sup>st</sup> 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*