

# Kelvin Wey Han Chan

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## EDUCATION

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### 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)
- 7-time Dean List Recipient (Awarded once per term)

**Programming Languages/Frameworks:** (proficient) Python, Flask, TensorFlow (familiar) C++, MATLAB, SQL

## RESEARCH PROJECTS

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### Syntactic Inversion for Zero-shot Cross-lingual NLP in Chatbots

*Sep 2020 – Jun 2021*

- Analysed the effects of different language typology 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 performance of mBERT by 21.5% and state-of-the-art performance by 3.5%
- Resulting paper under review
- Supervisor: Assoc. Prof. Ir. Dr. Chuah Joon Huang, Dept. of Electrical Engineering, University of Malaya

### Emotion Recognition Based on Bio-signals using Machine Learning

*Sep 2019 – Jun 2020*

- Designed a time series classifier using the DEAP dataset to recognize 6 different emotions with a Macro-F1 score of 94.7% using GSR and ECG bio-signals
- Synergized with 3 other teammates to design corresponding hardware based on the Raspberry Pi platform in a smartwatch form-factor
- Supervisor: Assoc. Prof. Ir. Dr. Chow Chee Onn, Dept. of Electrical Engineering, University of Malaya

## WORK EXPERIENCE

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### 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

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### Secretary & Chief Communications Officer, Emerging Leaders Asia

*Jun 2021 – Present*

- 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

### 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 1<sup>st</sup> Runner Up for the overall business challenge

## TRAINING AND CERTIFICATIONS

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### 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*