



LIANA LING LI YA

Masters of Science (MSc) in Computer Science
Apr 10, Phoenix Park Racecourse,
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This Document: Coded with ~~LaTeX~~

ABOUT ME

- **Programming:** Python, R, Jupyter, C++, C#, Java, ASP.NET, SQL, HTML/CSS/Javascript, VueJS, Quasar
- **Mathematics:** Statistics and Probability, Monte Carlo Simulation, Quantitative Research Methods
- **Languages:** Native-level English and Chinese; conversational in Malay and Cantonese
- **Interests:** AI Ethics, AI Art, NLP, Quant Research, Philosophy, Social Science

EDUCATION

- **University College Dublin** Dublin, Ireland
Masters of Science (MSc) in Computer Science (in Machine Learning) Sep 2023 – Sep 2024
 - Modules: Advanced Machine Learning, Connectionist Computing, Text Analytics, Applied Statistical Modelling, Monte Carlo Simulation, Generative AI...
- **Tunku Abdul Rahman University of Management and Technology** Kuala Lumpur, Malaysia
Bachelor of Computer Science (Honours) in Software Engineering; CGPA: 3.98/4.00 Oct 2019 – Oct 2022
Foundation in Science; CGPA: 4.00/4.00 Sep 2018 – Sep 2019

EXPERIENCE

- **Balaena Quant Sdn Bhd** Kelana Jaya, Malaysia
Junior Quant Researcher Dec 2022 – Sep 2023
 - Researched and designed minute-level statistical arbitrage algorithms for crypto derivatives
 - Analysed options volatility surface and order book imbalance data
 - Written scripts to automate large-scale historical data insertion for crypto trading pairs
- **Datasonic Smart Solutions Sdn Bhd** Putrajaya, Malaysia
Machine Learning Intern June 2022 – Nov 2022
 - Read through journal papers on speech recognition and computer vision
 - Categorised, labelled and augmented 4000 image data using CVAT
 - Trained YOLOv7 to perform card detection with mAP@.5 of 0.998 using PyTorch
 - Designed UI for an OAuth system and connected to backend using VueJS and Quasar
- **LS SMART MACHINERY (M) SDN BHD** Seri Kembangan, Malaysia
Junior Software Developer May 2021 – Jun 2021
 - Communicated and documented stakeholder requirements
 - Researched and reported on competitor analysis and project costing
 - Designed, documented and implemented PostgreSQL database schema
 - Connected application to Stripe API using Golang and Fiber.ctx
- **RSBAITAI by Turcomp BMB SDN BHD** Work from home, Malaysia
Chinese-English Translator-cum-Proofreader May 2020 – Nov 2021
 - Translated and proofread 80+ blog articles and 2 published books
 - Created a database using Excel Macros for article tracking
- **Chill Solutions** Work from home, Malaysia
Senior Translator-cum-Proofreader Nov 2019 – May 2020
Junior Translator-cum-Proofreader Aug 2019 – Oct 2019
 - Translated 40+ web novel chapters from Chinese to English
 - Proofread and gave feedback on 35+ works by junior translators
- **Chempaka Kota Kemuning, Assembly of God** Shah Alam, Malaysia
Chinese Teacher Aug 2019 – Oct 2019
 - Handled 3 classes of age groups ranging from 5 to 15 years old

PROJECTS

- **Feedforward Neural Network From Scratch** Deep Learning
Python Nov 2023 – Dec 2023
 - Implemented an extendable library for customisable neural network architecture
 - Obtained 80% test accuracy on the [UCI letter recognition dataset](#)
- **SliGen, AI Automatic Slide Generator** Natural Language Processing
Transformer, Python, Flask Oct 2021 – Mar 2022
 - Fine-tuned a HuggingFace T5 model on the ArXiv dataset for title generation
 - Summarised text using transformers, converted into Markdown and generated slides via SliDev
 - Constructed API interface with Flask for linking to web-based application
- **Cataclysm, Cat Detector** Image Processing
Haar Cascade Classifier, Python, Threading, Telegram API 7th Mar 2022
 - Processed frames from IP camera with haar cascade classifier to detect cat face
 - Sent notifications via Telegram Bot API
- **Summarize, AI Text Summariser** Natural Language Processing
Transformer, Python, Jupyter Notebook Sep 2021 – Oct 2021
 - Read through 20+ journal papers and applied 3 abstractive summarisation algorithms
 - Designed an experiment, curated relevant dataset, tested algorithms and produced a comparison report that eventually received 98/100 marks
- **Art Gallery Website** Web Development
C#, ASP.NET, VueJS, Tailwind CSS, HTML/CSS/Javascript May 2021 – Oct 2021
 - Created 5+ pages using self-learned Tailwind CSS and Vue
 - Added intra-page and inter-page functionalities using C#
 - Designed, documented and implemented SQL Server schema

ACADEMIA

- Ling, L., Amirul Imran Ahmad Azam, Ramanathan Palaniappan, & Tin, T.T. (2021, November 25-27) *Artificial Intelligence Art: Attitudes and Perceptions Toward Human Versus Artificial Intelligence Artworks*. [Paper presentation]. ICHEMET 2021.

ACHIEVEMENTS

- TAR UMT President's Award (valedictorian/top performing student)
- TAR UMT President's List certificates (GPA 3.9000 and above)
- TAR UMT Soft Skill Certificates
- Band 8.5 on a -band scale for IELTS 2022
- Band 5 on a 6-band scale for Malaysian University English Test (MUET) 2019
- Nanjing University Translation in Practice Online Course Certificate
- Cisco Networking Academy CCNA Routing and Switching Introduction to Networks Course
- Most Disciplined Student, Highest Average Score, Highest Number of Modules Completed in 2015, 2016 and 2017 in Secondary School

ACTIVITIES

- **Taman Sri Muda Flood Relief** TAR UMT/Shah Alam Gospel Centre
Volunteer 24th, 27th Dec 2021
- **Google #GCPBoleh** Google
Self-Learning Student Oct 2021 – Nov 2021
 - Completed 5 Machine Learning and 1 BigQuery Data tutorials on GCP
- **Google Developer Student Club TAR UMT** Google
Marketing & Creative Lead Jan 2021 – Oct 2021
 - Managed communication channels on 5 social media accounts
 - Created event posters and relevant captions
 - Hosted and facilitated the event *Meet the Xperts: A Journey in the IT Industry*
- **Programming League National 2020** University of Malaya
Participant 29th Feb 2020
- **Innovation and Prototyping Competition 2019** TAR UMT
Participant Feb 2019 – Mar 2019
- **Violin for Beginners Level 1, 2 and 3** TAR UMT
Participant Mar 2019 – Dec 2019
- **Foundation in Science (Track A)** TAR UMT
Class Representative Sep 2018 – Sep 2019
 - Collected fees and printed learning materials for the class
 - Communicated with the school management, lecturers and students