



LIANA LING LI YA

Junior Quant Researcher
Apr 10, Phoenix Park Racecourse,
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EDUCATION

- **University College Dublin** Dublin, Ireland
Masters of Science in Computer Science Sep 2023 – Sep 2024
 - **Skills Acquiring:** Machine Learning, Advanced Machine Learning, Connectionist Computing, Text Analytics, Data Science, Monte Carlo Simulation
 - **Languages:** Native-level in written/spoken English and Chinese; Conversational in Malay
- **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 Sep 2018 – Sep 2019
 - **Skills Acquired:** C++, C#, Java, Python, ASP.NET, SQL, HTML/CSS/Javascript, VueJS, Quasar

EXPERIENCE

- **Balaena Quant Sdn Bhd** Kelana Jaya, Malaysia
Junior Quant Researcher Dec 2022 – Sep 2023
 - **Statistical Arbitrage:** Researched and designed minute-level stats arb algorithms in crypto future derivatives
 - **Research and Exploration:** Assisted in researching options volatility surface and order book imbalance
 - **Data Pipeline:** Written a script 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
 - **Academic Research:** Read through journal papers on speech recognition and computer vision
 - **Data Preparation:** Categorised, labelled and augmented 4000 image data using CVAT
 - **Model Training:** Trained YOLOv7 to perform card and landmark detection with mAP@.5 of 0.998 using PyTorch
 - **UI/UX Design:** Designed UI for an OAuth system while connecting to backend services using VueJS and Quasar
- **LS SMART MACHINERY (M) SDN BHD** Seri Kembangan, Malaysia
Junior Software Developer May 2021 – Jun 2021
 - **Requirement Elicitation:** Communicated and documented stakeholder requirements
 - **Project Reporting:** Researched and reported on competitor analysis and project costing
 - **Database Design:** Designed, documented and implemented PostgreSQL database schema
 - **Backend Setup:** 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
- **Chill Solutions** Work from home, Malaysia
Senior Translator-cum-Proofreader Nov 2019 – May 2020
Junior Translator-cum-Proofreader Aug 2019 – Oct 2019

PROJECTS

- **SliGen, AI Automatic Slide Generator** Natural Language Processing
Transformer, Python, Flask Oct 2021 – Mar 2022
 - **Model Training:** Fine-tuned a HuggingFace T5 model on the ArXiv dataset for title generation
 - **Core Algorithm Implementation:** Summarised text using transformers, converted into Markdown and generated slides via SliDev API
 - **API Construction:** Constructed API interface with Flask for linking to web-based application
- **Cataclysm, Cat Detector** Image Processing
Haar Cascade Classifier, Python, Threading 7th Mar 2022
 - **Cat Frontal Face Detection:** Processed frames from IP camera via Android phone with haar cascade classifier
 - **Threading:** Started two threads to delay notifications sent via Telegram Bot API
- **Summarize, AI Text Summariser** Natural Language Processing
Transformer, Python, Jupyter Notebook Sep 2021 – Oct 2021
 - **Research and Implementation:** Read through 20+ journal papers and applied 3 abstractive summarisation algorithms
 - **Experiment Design:** Designed an experiment, curated relevant dataset, tested algorithms and produced a comparison report that eventually received 98/100 marks

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]. ICHESMET 2021.

ACHIEVEMENTS

- **TAR UMT President's Award:** Top student with best academic and co-curricular performance
- **International English Language Testing System (IELTS) 2022:** Band 8.5 on a 9-band scale
- **TAR UMT President's List certificates:** For GPA 3.9000 and above
- **TAR UMT Certificate in Soft Skills:** For foundation and bachelor's degree
- **Secondary School Awards:** Most Disciplined Student, Highest Average Score, Highest Number of Modules Completed in 2015, 2016 and 2017

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
 - **Tutorial:** 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
 - **Account Management:** Managed communication channels on 5 social media accounts
 - **Poster and Caption Design:** Created event posters and relevant captions
 - **Event Hosting:** Hosted and facilitated the event *Meet the Xperts: A Journey in the IT Industry*