



LIANA LING LI YA

Final-year software engineering student
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EDUCATION

- **Tunku Abdul Rahman University College** Kuala Lumpur, Malaysia
Bachelor of Computer Science (Honours) in Software Engineering; CGPA: 3.9744 Oct 2019 – Oct 2022
Foundation in Science; CGPA: 4.0000 Sep 2018 – Sep 2019
 - **Skills Acquired:** C++, C#, Java, Python, ASP.NET, SQL, HTML/CSS/Javascript, VueJS, Quasar
 - **Languages:** Proficient in written/spoken Chinese and English; Conversational in Malay

EXPERIENCE

- **Datasonic Smart Solutions Sdn Bhd** Presint 8, Putrajaya
Frontend Development/Machine Learning Intern June 2022 – present
 - **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

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
- **Art Gallery Website** Web Development
C#, ASP.NET, VueJS, Tailwind CSS, HTML/CSS/Javascript May 2021 – Oct 2021
 - **Frontend Development:** Created 5+ pages using self-learned Tailwind CSS and Vue
 - **Backend Development:** Added intra-page and inter-page functionalities using C#
 - **Database Design:** 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]. ICHESMET 2021.

ACHIEVEMENTS

- **International English Language Testing System (IELTS) 2022:** Band 8.5 on a 9-band scale
- **TARUC President's List certificates:** For GPA 3.9000 and above
- **TARUC Certificate in Soft Skills:** For foundation
- **Malaysian University English Test (MUET) 2019:** Band 5 on a 6-band scale
- **Nanjing University Translation in Practice Online Course Certificate:** Certificate of Completion
- **Cisco Networking Academy CCNA Routing and Switching:** Introduction to Networks Course Completion Certificate
- **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** TARUC/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 TARUC** 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*
- **Programming League National 2020** University of Malaya
Participant 29th Feb 2020
- **Innovation and Prototyping Competition 2019** TARUC
Participant Feb 2019 – Mar 2019
- **Foundation in Science (Track A)** TARUC
Class Representative Sep 2018 – Sep 2019
 - **Administration:** Collected fees and printed learning materials for a class of more than 15 people
 - **Coordination:** Communicated with the school management, lecturers and students