



## 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*  
*Foundation in Science; CGPA: 4.0000*  
Oct 2019 – Oct 2022  
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

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- 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

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- **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

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- **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