

# Linh Duong | Software Engineer

**Phone:** +84 909 296 529

**Email:** linhduongalmira@gmail.com

**Website:** <https://meolinn.github.io/PersonalWebsite/>

**Github:** @meolinn



## EDUCATION

### Foreign Trade University

*Bachelor of International Business and Trade; K60 Valedictorian of Admission Entry Enrollment*

HCMC, Vietnam

Aug. 2021 – Mar. 2022

### School of Science, Engineering and Technology, RMIT

*Bachelor of Information Technology; Minor in Cloud Computing; Student Representative*

HCMC, Vietnam

Feb. 2022 – Present

## PROJECTS

### SIGN LANGUAGE TRANSLATOR | *AI, Computer Vision, Terminal (UNIX shell), Python, ReactJS, GitHub, JIRA, Agile* 20th Aug. 2022

- Streamlined the software development by eliminating the data-preparing process with the integration of MediaPipe, which determines hand location and uses machine learning to infer “landmarks” on the hands
- Achieved an accuracy of 95.7% in real-time video hand, finger tracking by ensembling Holistic model of MediaPipe and image-processing, computer vision operations of other existing libraries & frameworks (OpenCV) in only 24 hours
- Initiated the high-level architecture, task delegation & technical breakdowns of the project regarding the teams’ performance consistently
- Consulted with multiple domain experts in Healthcare field for labeling of data and establishing 6 main Agile lifecycle phases of the project.
- Greatly enhanced the collaboration of the team incorporating Agile Methodology & utilising Jira Software Add-ons under mentor’s guidance.

### FACE-DETECTION VIDEOCALL APP SHECODES HACK 2022 | *WebRTC, Django, Mediapipe, OpenCV, JS, Python* 7th Sep. 2022

- Resolved undermanned conflict of the team by refactoring the software design that led to the deployment of the Web Application in Django.
- Introduced and adapted the WebRTC technology to meet the web application’s scope including peer-to-peer connections between browser, audio and video conferencing, file exchange, screen sharing
- Reduced project’s lifetime by 20% by setting up the environment in PyCharm IDE and installing the necessary dependencies & packages
- Constructed the perception pipeline with the import of MediaPipe, a Deep Learning/Machine Learning framework to obtain good performance

### PERSON COUNTER | *Tensorflow, Anaconda, Pandas, DLib, OpenCV, NumPy, SciPy, Bash, Python* Jun. 2022 – Jul. 2022

- Worked solo to optimise SSD model along with the Euclidean-distance algorithm which achieves 75.1% mAP, outperforming the R-CNN model and contributing to the final design of a machine learning image classification for object trackers
- Single-handedly normalised the time-series data input using OpenCV deep neural-network modules, thus, resulted in better extraction of features from the image and higher image resolution.
- Manipulated data with Python 3 for loading and extraction as well as compared between common ML/DL models using Scikit-learn and Tensorflow and opted out python libraries such as NumPy, SciPy & Pandas for data analysis and numerical computations.

### RMIT STUDENT GROUP MANAGEMENT SYSTEM | *Oracle APEX, Oracle SQL, Oracle Database, GitHub* Mar. 2022 – May. 2022

- Supported the development of a fully responsive, scalable data-centric web application using Oracle APEX and flexibly accommodated specified requirements and constraints, based on analysis or modelling or requirements specification of the RMIT course group system
- Operated APEX services and Oracle Autonomous Database in Oracle Cloud Infrastructure for the transformation of the spreadsheet-type data
- Defined database schemas, updated database contents & extracted data from databases for RMIT students’ requirements with SQL

## PROFESSIONAL SKILLS

**Software Developing Languages:** Java, SQL, Python, Bash, Javascript, HTML/CSS, LaTeX

**Frameworks/Libraries:** Tensorflow, OpenCV, Pandas, MediaPipe, DLib, Numpy, Oracle APEX, WebRTC, Django, Java Spring

**Software Management:** GitHub, Jira Software, Agile Methodology, DevOps Practice

**English Proficiency:** IELTS 8.0 Overall

## RELEVANT EXPERIENCE

### Global Health Hackathon 2022 | *Top 3 Mentor’s Choice For Funding*

20th Aug. 2022

*Technical Lead, Machine Learning Engineer*

<https://youtu.be/ITAWEDmMR78>

- Led and coordinated an international, diverse team of 6 engineers from 5 different countries throughout intensive 48 hours of non-stop solution hacking
- Out-standingly recognized by Swinburne Academic Heads for building excellent relationships with tech-industry partners like JIRA, MekongCapital, VinAI, etc and for positioning unique solutions versus other international leading teams
- Successfully implemented ML-based software projects in using pandas, NumPy, MediaPipe, SciPy, Tensorflow, OpenCV, DLib in Python for developing various machine learning algorithms and pipelines to increase performance, quality, data management, and accuracy.
- Evaluated & determined the right tech stack to maximally automate the validation and inference process getting data ingested by a model to compute predictions before serving the ML model in production to the end-user.