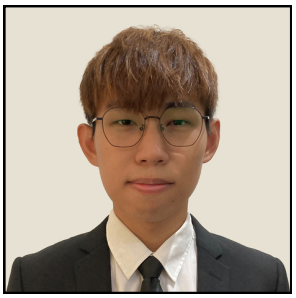

YAP JIA JUN

Self-Motivated Learner • Logical Thinker • Curious Developer

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Selangor, Malaysia

LinkedIn
GitHub
Website

WORK HISTORY

Associate Research Engineer
Aug 2024 - Present

FootfallCam (Meta Research Sdn Bhd)

- Developed and deployed a **Face Demographics Recognition Model** using **Convolutional Neural Networks** (CNNs), optimizing for accuracy and real-time performance.
- Researched and tested stereo imaging techniques to generate high-quality depth maps for enhanced AI perception.
- **Automated end-to-end AI model workflows**, including data collection, preprocessing, annotation, training, testing, and performance analysis.
- Engineered a **people-counting feature using 2D person detection** and tracking models, extending functionality to stereo images.
- Implemented object detection and overhead obstruction logic to improve people-counting accuracy in live video feeds.
- Contributed to a **centroid inference pipeline**, integrating multi-source video processing, using AI model to perform person detection and tracking, backend analytics, and data export to servers.

Internship for Computer Science / IT
Mar 2024 - Jul 2024

FootfallCam (Meta Research Sdn Bhd)

- Optimized people counter accuracy through tuning and quality control, enhancing system performance.
- Performed data annotation to support AI model training, ensuring high-quality datasets.
- Conducted data gathering, preprocessing, visualization, and statistical analysis to drive insights and model development.

EDUCATION

BSc (Hons.) in Mathematics with Computer Graphics
Oct 2020 - Oct 2024

University Malaysia Sabah | Certificate

- **CGPA: 3.84** | Certificate
- **Relevant Courses:** • Digital Image Processing • Real-Time Graphics • Scientific Data Visualization • Computer Interface Programming • Cryptography • Mathematical Programming • Fuzzy Mathematics • Geometric Modelling

Malaysian Higher School Certificate STPM
May 2018 - Dec 2019

Malacca High School | Certificate

- **CGPA: 2.67** | Certificate
- **Relevant Courses:** • Mathematics (T) • Physics • Chemistry

PROJECTS

Underwater Image Enhancement by using Deep Learning
Final Year Project

- Implemented an underwater image formation model to remove haze like effect in the underwater images.
- Trained a white balance model and combined it with the underwater image formation model to enhance sharpness, contrast, and color balance in degraded underwater images.
- **Skills:** Python • CNNs • PyTorch • Image Processing • Deep learning • Computer Vision • OpenCV

Other Projects

3D Desktop Game (The Crusader) • Advanced Painting Software • Advanced Image Enhancement Software • Whale-Watching Application Interface Design (Prototype)

ACCOLADES

First Class Award | Certificate *2020 -2024*

Obtained CGPA 3.67 and above in my BSc (Hons) studies.

Top 10% Award | Certificate *Mar 2024 - Jul 2024*

Awarded for high distinction in internship program.

Silver Medal Award | Certificate *19 - 21 Apr 2019*

International Festival of Innovation on Green Technology.

MY SKILLS

Language

English • Mandarin • Malay

Programming Language

Python • SQL • Apps Scripts • C++ • HTML • JavaScript • CSS

General AI/ML Skill & Frameworks

PyTorch • OpenCV • TensorFlow
Deep Learning • Computer Vision • Data Preprocessing • Data Annotation • Model Deployment