JASON RAPHAEL SUSANTO

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EDUCATION

City University of Hong Kong — Kowloon, Hong Kong
Bachelor of Science in Computer Science | Minor in Finance — Expected Jun 2027
GPA: 3.53/4.3 | Top Entrance Scholarship for Outstanding International Students
Relevant Coursework: Software Engineering Practice (A), Data Structures (A-), Python Programming (A-)
Areas of Interest: Machine Learning, Data Analytics, Computer Vision, Artificial Intelligence

WORK EXPERIENCE

Logistics and Supply Chain MultiTech R&D Centre — Cyberport, Hong Kong
AI/Data Engineer (Project Research Assistant) — Jun 2025 – Present

- Delivered a full-stack AI data platform for a government client covering dashboards, analytics, RAG chatbot and user management; synced PostgreSQL to Elasticsearch via pgsync and queried 10M+ records in near-real-time using ES|QL
- Researched and benchmarked OCR toolkits, VLMs and LLMs, comparing detection accuracies to meet client requirements and achieving ~80% extraction accuracy for the client's target content
- Developed AI/ML solutions by building a RAG pipeline for multilingual keyword and document retrieval
- Optimized 1-3B parameter LLM inference by deploying locally with Docker on hardware-constrained systems
- Conducted and presented a statistical analysis on consumer complaint data to produce root-cause analysis
- Designed and maintained a Python-based ETL pipeline, establishing data-quality validation rules for ~20,000 records
- Analyzed ROS2 logs (picoscan and odometry) to diagnose anomalies in robotic path-planning algorithms
- Developed a personal AI assistant using n8n and local LLMs to automate workflows and boost daily productivity

Risksis Technology Limited — Tai Po, Hong Kong
Data Engineer Intern — Jun – Aug 2024

- Labeled approximately 45,000 data images using Anylabeling
- Defined labeling standards and data preprocessing/validation workflows to improve dataset quality

PROJECTS

IBM Consulting Art of Intelligence Forum – Top 10 Team — Dec 2025
Presented 1FAN, an AI-powered fan engagement platform for Formula 1, leveraging WatsonX generative AI, real-time recommendation systems, and emotion-recognition analytics to enhance inclusivity and fan interaction. Designed prototype and implementation of AI strategy

FILEbert – Gesture Based File Sharing Program — Oct – Dec 2025

- Built a real-time AI application using TensorFlow HandPose integrated into a React front-end interface
- Connected the gesture subsystem to AWS and WebRTC P2P for seamless room creation and direct data transfer
- Enabled inclusive, low friction collaboration by combining natural body gestures with traditional UI controls

Students' Expression Recognition Program — Mar – Nov 2022
A machine learning model developed as part of research for the Asia Pacific Conference of Young Scientists, aimed at improving online learning efficiency by detecting students' enthusiasm during different times of class.

- Researched different setups of CNNs with Keras in regard to the limited datasets available, resulting in a 30% increase in prediction accuracy over initial models. Reached 90% accuracy for tests conducted on stock images.
- Awarded the Bronze Medal in Computer Science at the *Asia Pacific Conference of Young Scientists*

ACTIVITIES AND LEADERSHIP

Residence Tutor of Jockey Club Academy Hall | Facilities, Events, and Returning Tutor — Jun 2025 – Present

- Organized community events and supported 64 residents, enhancing their overall hall and university life experience

OTHER SKILLS

- **Technical**: Proficient in Python, C++, Java, HTML, CSS, JavaScript; Computer Vision, Machine Learning, and Deep Learning; GenAI, RAG, LLM Inference; pandas, NumPy; SQL, PostgreSQL, Elasticsearch; data quality and validation; AWS EC2, Docker; Vue, React
- **Languages**: Fluent in English and Bahasa Indonesia; basic Mandarin