Edbert Widjaja

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EDUCATION

The University of Hong Kong   **GPA:** 3.83/4.3
Bachelor of Engineering in Data Science, Minor in Finance   *Sep 2023 – Jul 2027*
- **Awards:** Dean's Honours List, HKU Belt and Road Scholarship, Morgan Stanley Asia Code to Give Hackathon 2025 Finalist

WORK EXPERIENCE

Langya AI Limited   *Hong Kong*
Software Engineer Intern   *Jun 2025 – Aug 2025*
- **Designed a custom API Gateway routing to 30+ protected Vertex AI API endpoints** using Node.js, Express, FastAPI, Firestore
- **Deployed REST endpoints** on GCP Compute Engine (Nginx, static IPs) and serverless architectures (Firebase, Cloud Run)
- Utilize AWS SigV4 token signing on Google Cloud Storage (GCS) Private Buckets through Cloud CDN and Cloud Load Balancing for serving of 10+ cached static assets. **Achieved low-latency delivery, enhanced asset security and availability**
- **Led full-stack initiatives to automate custom LLM's high-volume file fetch, processing, uploads** with Google & Azure OAuth 2.0

Naxon.ai   *Jakarta, Indonesia*
AI/ML Engineer Intern   *May 2025 – Jun 2025*
- **Applied multi-agent networks for a client-booking Adaptive RAG chatbot** with Google Sheets Model Context Protocol (MCP) server integration, assembled through LangGraph, Azure OpenAI, PostgreSQL for memory handling and Flask for REST APIs
- **Designed a multi-agent RAG system that enhances its replies** through automatic changes in system prompt and knowledge base

Migrasia   *Hong Kong*
AI/ML Engineer Intern   *Feb 2025 – Apr 2025*
- **Built 8 domain-adapted Neural Machine Translation (NMT) system** by fine-tuning Gemma2 SEA-LION 9B, optimizing LLM operations by over 80% with quantized LoRA and lifting average BLEU score by 24.88. **Outperformed OpenAI's GPT-4o by 200%**
- **Integrated dynamic analytics dashboard** from PowerBI, React.js and Chart.js to company website. **Boosted web traffic by 30%**
- **Collaborated in an agile team to deliver a full-stack AI grant writer** utilizing RAG pipelines, JavaScript, Django REST Framework

Chinotech International Limited   *Hong Kong*
Software Engineer Intern   *Jan 2025 – Jan 2025*
- **Ran large-scale telemetry data migration** to Thingsboard IoT via Shell Scripting, REST APIs and MQTT Pub/Sub pattern
- **Established and deployed ML-based predictive (Trendz) analytics platform** with AWS EC2, Docker, OpenJDK, PostgreSQL JDBC

PROJECTS

STOCK NAVIGATOR | Source Code   *React.js | Django | TensorFlow | PyTorch | LangChain | PostgreSQL | Redis*
- **Containerized platform to display real-time info on 60+ stocks** through dynamic Plotly charts with GitHub Actions for CI/CD
- Features include user authentication, app monitoring with Grafana and Prometheus, 30-day Redis-cached price forecast and real-time market sentiment analysis with LSTMs and a Retrieval Augmented Fine-Tuned (RAFT) chatbot to handle user queries

Morgan Stanley Code To Give – DinoLearn | Source Code   *React Native | TypeScript | React Admin | FastAPI | Supabase |Whisper*
- **Engineered a mobile app to support English learning for children**, through automated AI phonetics analysis and other features

Grade Your IELTS! | Source Code   *TensorFlow | PyTorch | Streamlit | Scikit-Learn | Transformers*
- **Evaluated various ML/DL/NLP architectures**–including TF-IDF-based regression models, custom neural networks integrated with BERT layers, and fine-tuned BERT variants–achieving a top MAE of 0.57 for automated IELTS essay scoring

SignBOT – Inclusivity for the Deaf | Source Code   *TensorFlow | PyTorch | LabelImg | OpenCV | Unsloth | Pandas*
- **Developed features for an inclusive solution**, including sign-to-text translation by fine-tuning SSD MobNet-v2 with TensorFlow Object Detection API, achieving 85% test accuracy and an ASL-expert chatbot by fine-tuning Llama-3.1 8B with Unsloth

SKILLS AND OTHERS

- **Technical:** Python, Java, JavaScript, C/C++, R, SQL, Git, Docker, AWS, GCP, Firebase
- **Frameworks:** Pandas, PyTorch, TensorFlow, LangChain, Flask, FastAPI, Django, PostgreSQL, MongoDB, React.js, Node.js, Express
- **Coursework:** Data Science, Data Structures & Algorithms, Probability & Statistics, Machine & Statistical Learning, Artificial Intelligence, Database Systems (MySQL), Object-Oriented Programming (Java), Network Security
- **Activities:** HKU Data Science Association Executive Committee Member, Shun Hing College Event Management Team