

# Edbert Widjaja

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## EDUCATION

### The University of Hong Kong

Bachelor of Engineering in Data Science, Minor in Finance

GPA: 3.77/4.3

Sep 2023 – Jul 2027

- **Awards:** Dean's Honours List, HKU Belt and Road Scholarship, Morgan Stanley Code to Give Hackathon 2025 Finalist

## WORK EXPERIENCE

### Langya AI Limited

Cloud/Software Engineer Intern

Hong Kong

Jun 2025 – Aug 2025

- **Designed a custom API Gateway routing to 30+ protected multimodal AI API endpoints** using Node.js, Express, FastAPI, Firestore
- **Deployed all REST endpoints** on GCP Compute Engine with Nginx proxy as well as serverless architectures (Firebase, Cloud Run)
- Utilize AWS SigV4 token signing on Google Cloud Storage (GCS) Private Buckets through Cloud CDN and HTTPS Load Balancing for serving of 5+ cached static assets. **Achieved low-latency delivery and enhanced asset security**
- **Led full-stack initiatives to automate custom LLM's high-volume file fetch, processing, uploads** with Google & Azure OAuth 2.0

### Naxon.ai

LLM Engineer Intern

Jakarta, Indonesia

May 2025 – Jun 2025

- **Applied multi-agent networks for an Adaptive RAG chatbot** with G-Sheets Model Context Protocol (MCP) server integration, assembled through LangGraph, Azure OpenAI and PostgreSQL for memory handling. **Automated 85% of spreadsheet workflows**
- **Designed a multi-agent RAG system that enhances its replies** through automatic changes in system prompt and knowledge base

### Migrasia

Data Scientist Intern

Hong Kong

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 24.4. **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%**
- **Devised a full-stack AI grant writer** with RAG pipelines, JavaScript, Django REST Framework. **Raised internal efficiency by 75%**

### Chinotech International Limited

Data Scientist Intern

Hong Kong

Jan 2025 – Jan 2025

- **Ran large-scale data migration** to Thingsboard via ShellScript, HTTP REST API, MQTT. **Enabled 55% more anomalies detected**
- **Developed and deployed ML-based predictive analytics platform** with AWS EC2, Docker, PostgreSQL and Trendz Analytics

## PROJECTS

### STOCK NAVIGATOR | [Source Code](#)

[React.js](#) | [Django](#) | [TensorFlow](#) | [PyTorch](#) | [LangChain](#) | [PostgreSQL](#)

- **Containerized platform to display real-time info on 60+ stocks** through dynamic Plotly charts with GitHub Actions for CI/CD
- Features include user authentication, 30-day price forecast and real-time market sentiment analysis with trained LSTM networks and a Retrieval Augmented Fine-Tuned (RAFT) chatbot to handle user queries

### 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—to optimize automated IELTS essay scoring

### SignBOT – Inclusivity for the Deaf | [Source Code](#)

[TensorFlow](#) | [PyTorch](#) | [LabelImg](#) | [OpenCV](#) | [Unsloth](#) | [Pandas](#)

- **Developed multiple features for an all-inclusive solution**, including sign-to-text by fine-tuning SSD MobNet-v2 with TensorFlow Object Detection API and personalized chatbot by fine-tuning Unsloth Llama-3.1 8B on QA dataset

### TEXT-2-IMAGE | [Source Code](#)

[MongoDB](#) | [Express.js](#) | [React](#) | [Node.js](#) | [Tailwind CSS](#)

- **Engineered a MERN full-stack app which translates text to images** and handles authentication with BCrypt, JWT and MongoDB

## SKILLS AND OTHERS

- **Technical:** Python, Java, JavaScript, C/C++, R, SQL, Git, PowerBI, Google Cloud Platform, Firebase, Supabase
- **Frameworks:** PyTorch, TensorFlow, LangChain, Flask, FastAPI, Django, PostgreSQL, MongoDB, React.js, Node.js, Express
- **Coursework:** Data Science, Data Structures & Algorithms, Probability & Statistics, Machine & Statistical Learning, Database Systems (MySQL), Object-Oriented Programming (Java)
- **Others:** HKU Data Science Association Executive Committee Member, Shun Hing College Event Management Team