

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:** HKU Belt and Road Scholarship, Alibaba Intl. Hackathon 2024 Semi-Finalist, GenAI Hackathon for SDGs 2024 Finalist

WORK EXPERIENCE

Langya AI Limited

Cloud/Software Engineer Intern

Hong Kong

Jun 2025 – Present

- Designed and exposed **30+** protected multimodal LLM, OCR API endpoints using **Node.js**, **Express.js** and Cloud **Firestore** Database
- Deployed endpoints on **E2** Virtual Machines (**VMs**) with **NGINX** on GCP Compute Engine and serverless architectures (**Firebase** and **Cloud Run**), integrated to a JavaScript frontend via Cloud **Firestore** and **REST**
- Utilize AWS **SigV4** token signing on Google Cloud Storage (GCS) Private Buckets through Cloud **CDN** and **HTTPS Load Balancers** for serving of **5+** static assets, leading to **65.7%** faster load times and enhanced asset security
- Created full-stack solutions to automate LLM file retrievals & uploads with Google OAuth 2.0 Flow, reducing manual load by **40%**

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, automating **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**, outperforming OpenAI's GPT-4o by **200%**
- Integrated dynamic analytics dashboard from **PowerBI**, **React.js** and Chart.js to company website, boosting web traffic by **30%**
- Devised a full-stack AI grant writer with **RAG**, **HTML/CSS/JavaScript**, **Django REST** Framework, raising 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**, enabling **55%** more anomalies detected
- Developed and deployed ML-based predictive analytics solutions with **AWS EC2**, **Docker**, **PostgreSQL** and Trendz Analytics

PROJECTS

STOCK NAVIGATOR | [Source Code](#)

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

- Full stack containerized app to display real-time data on **60+** stocks through dynamic Plotly charts with **GitHub Actions** for CI/CD
- Features include user authentication with **PostgreSQL** and **JWT**, 30-day price forecast and real-time market sentiment analysis with multiple stacked **LSTM** networks and a fine-tuned FLAN T5 + **RAG** 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, C/C++, R, SQL, HTML, CSS, JavaScript, Git, Microsoft Excel, PowerBI, Google Cloud Platform, Firebase
- **Frameworks:** PyTorch, TensorFlow, Scikit-Learn, Pandas, LangChain, FastAPI, Django, PostgreSQL, React.js, Node.js, Express.js
- **Coursework:** Data Science, Data Structures, Probability & Statistics, Machine & Statistical Learning, Database Systems
- **Others:** HKU Data Science Association Executive Committee Member, Shun Hing College Event Management Team