Edbert Widjaja

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EDUCATION

The University of Hong Kong   **GPA:** 3.77/4.3
Bachelor of Engineering in Data Science, Minor in Finance   *Sep 2023 – Jul 2027*

- **Awards:** HKU Belt & Road Scholarship, ISM-HK 2024 Case Competition Semi-Finalist(Top 5%), Alibaba International 2024 Global E-Commerce AI Hackathon Semi-Finalist(Top 4%); Generative AI Hackathon for SDG 2024 Finalist

WORK EXPERIENCE

Langya AI Limited   *Hong Kong*
AI Engineer Intern   *Jun 2025 – Present*

- Designed and developed **10+** secure multimodal **LLM** API endpoints using **Node.js**, **Express.js**, and **Postman**, deployed on **Linux VMs** with **NGINX** (**GCP**) and serverless architectures (**Firebase** + **Cloud Run**), integrated to a **JavaScript** frontend via **REST**
- Utilize **SigV4** token signing on **S3**-compatible **GCS** Private Buckets through **HTTPS Load Balancers** for serving of **5+** static assets
- …..

Naxon.ai   *Jakarta, Indonesia*
LLM Engineer Intern   *May 2025 – Jun 2025*

- Applied **multi-agent** networks for an **Adaptive RAG** chatbot (**Query Analysis**, **RAG**, Google Sheets **MCP** server integration), assembled through **LangGraph**, **Azure OpenAI** & **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   *Hong Kong*
Data Scientist Intern   *Feb 2025 – Apr 2025*

- Built **8** domain-adapted **NMT** by fine-tuning **SEA-LION**, optimizing **LLM** operations by over **80%** and lifting average **BLEU** by **24.4**
- Integrated dynamic analytics dashboard from **PowerBI**, **Chart.js** and **React.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   *Hong Kong*
Data Scientist Intern   *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.js | Django | PyTorch | TensorFlow | 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 **NLP** sentiment analysis with distinct **2-stacked LSTM** networks and a fine-tuned **FLAN T5** + **RAG** Q-A agent to handle user queries

Grade Your IELTS! | Source Code   *TensorFlow | PyTorch | Streamlit | Pandas | Scikit-Learn | Transformers*

- Experimented with different **DL/ML/NLP** architectures, including **TF-IDF** with **Regression** models, custom neural networks on top of **BERT** layers, fine-tuning of pre-trained **BERT** and its variants to determine optimal model for automation of essay grading

SignBOT – Inclusivity for the Deaf | Source Code   *TensorFlow | LabelImg | OpenCV | Unsloth | Pandas | QLoRA | PyTorch*

- Developed **3** features for an all-inclusive solution, including sign-to-text (fine-tuning **SSD MobNet-v2** with **TensorFlow Object Detection API**), NLP & Speech Recognition API in text-to-sign and chatbot (fine-tuning **Unsloth Llama-3.1** on Q-A dataset)

TEXT-2-IMAGE | Source Code   *MongoDB | Express.js | React.js | Node.js | Tailwind CSS | BCrypt*

- Engineered a **MERN** full-stack app which transforms 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
- **Frameworks:** PyTorch, TensorFlow, Scikit-Learn, Pandas, LangChain, FastAPI, React.js, Django, PostgreSQL, Node.js
- **Coursework:** Programming Technology, Data Science, Data Structures & Algorithms, Probability & Statistics, Machine Learning
- **Others:** HKU Data Science Association Executive Committee Member, Shun Hing College Event Management Team