



Name: Franklin Lingga Abun

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Date of Birth: 17th December 1997

Professional Summary

Innovative engineer with expertise in **Linux-based server administration, DevOps, and cloud infrastructure**, combined with a strong background in Python development and AI systems. Skilled in **containerization, CI/CD pipelines, and real-time monitoring** to deliver **high-performance, production-ready deployments**. Experienced in leading **mission-critical technology projects under pressure**, with international recognition for pioneering digital twin and workflow optimization solutions. Passionate about **bridging IT infrastructure, applied engineering, and live event technology environments** to maximize system reliability and performance.

Education

Bachelor of Engineering in Mechanical Engineering

Universiti Malaysia Sarawak (UNIMAS) | 2016–2020

Professional Experience

TIZA AI Sdn. Bhd. | Kuala Lumpur, Malaysia

Chief Technology Engineer | 2023–Present

- Designed and deployed **Linux server infrastructure** for AI and data systems, managing **containerized applications with Docker**.
- Built and maintained **automated CI/CD pipelines** (Jenkins, GitHub Actions) for rapid deployment of production services.

- Implemented **monitoring and alerting systems** (Grafana, InfluxDB) to ensure uptime and reliability.
- Directed cross-functional projects involving **real-time control systems, digital twins, and cloud deployment** in production environments.
- Coordinated with external partners under **tight delivery schedules**, mirroring live-event style execution.

Robopreneur Sdn. Bhd. | Selangor, Malaysia

Robotic Software Engineer | 2021–2022

- Developed **simulation and digital twin frameworks** for robotic platforms, optimizing real-time performance.
- Integrated AI algorithms into robotics with **automated deployment pipelines** and cloud connectivity.
- Collaborated with hardware and IT teams to deliver **end-to-end real-time solutions**, including networked robotics control.

Achievements

- Deployed a **real-time facial recognition system** with CI/CD integration for continuous updates during Malaysia's Movement Control Order.
- Co-founded **TIZA AI Sdn. Bhd.**, delivering regional adoption of **AI, server infrastructure, and digital twin solutions**.

Skills

- **Infrastructure & DevOps:** Linux servers, Docker, CI/CD (Jenkins, GitHub Actions), monitoring (Grafana, InfluxDB), workflow automation.

- **Networking & Cloud:** Basic networking protocols, cloud platforms (AWS, Azure), container orchestration (Kubernetes).
 - **Programming & Tools:** Python, MATLAB, PyTorch, TensorFlow, Scikit-learn, Git.
 - **Domain Expertise:** Digital Twins, Real-Time Systems, Robotic Simulation, AI Infrastructure.
 - **Soft Skills:** Project Leadership, Stakeholder Engagement, System Integration, High-Pressure Delivery.
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Languages

- English (Fluent)
- Bahasa Malaysia (Native)
- German (Intermediate)



AI & DevOps Project Portfolio – TIZA AI

1. Real-Time Facial Recognition System for Smart Surveillance

- **Objective:** Deliver secure, low-latency face detection and recognition in live environments.
- **Tech Stack:** Python, OpenCV, TensorRT, YOLOv5, Docker, Firebase.
- **Infrastructure/DevOps Contribution:**
 - a) Built **CI/CD pipelines** for automated model deployment across multiple edge devices.
 - b) Implemented **real-time monitoring and logging** for system health and alerts.
- **Outcome:** Deployed in pilot sites with **fault-tolerant updates, scalable configuration management, and consistent low-latency performance.**

2. AI Algorithms for Electrical Distribution Optimization

- **Objective:** Increase efficiency and reliability of semi-urban and industrial power grids.
- **Tech Stack:** Python, PyTorch, Scikit-learn, MATLAB, Docker, Linux.
- **Infrastructure/DevOps Contribution:**
 - a) Automated **data ingestion and monitoring pipelines** on Linux servers.
 - b) Built **reproducible CI workflows** with Git and unit testing for ML models.
 - c) Optimized **cloud deployment** on GPU servers for forecasting and anomaly detection.

- **Impact:** Improved substation efficiency with **predictive switching** and reduced downtime through **live anomaly detection dashboards**.
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3. AI Data Consumption Management Engine

- **Problem:** Manage unpredictable spikes in enterprise and industrial network demand.
- **Tech Stack:** Python, Reinforcement Learning, Docker, Grafana, InfluxDB, Linux.
- **Infrastructure/DevOps Contribution:**
 - a) Designed **containerized microservices** for scalable deployment.
 - b) Set up **real-time monitoring and automated alerts** with Grafana and InfluxDB.
 - c) Applied **config-as-code reinforcement learning policies** to dynamically manage bandwidth.
- **Achievements:** Delivered **28% cost savings** in bandwidth billing and provided **live monitoring dashboards** for system operators.