

# Muhammad Anang Ayman Ramadhana

Jakarta, Indonesia | [Linkedin](#) | [Github](#) | [Portfolio](#) | +62 8111 0000 536 | [anang.ayman@gmail.com](mailto:anang.ayman@gmail.com)

## WORK EXPERIENCE

### Backend Engineer Intern

Melbourne, Australia | Remote

Digital Agri Solutions Pty Ltd.

Oct. 2024 - Sept. 2025

- Engineered and deployed a containerized OIDC Identity Provider to Google Cloud Platform (GCP) using Flask and Docker, transitioning a legacy system to modern OAuth 2.0 standards within an Agile Scrum team
- Configured "zero-downtime" dynamic login routes that automatically migrated 1,000+ legacy SHA256 passwords to Werkzeug hashes, eliminating manual resets during large-scale data migrations
- Enforced defense-in-depth security across distributed systems by implementing strict scope-based API access controls, automated brute-force lockouts, and PKCE token revocation endpoints
- Established comprehensive quality assurance practices by authoring PyTest unit tests and conducting extensive API debugging with Postman to validate complex authentication flows

## EDUCATION

### Binus University

Jakarta, Indonesia

Bachelor of Computer Science | Global Class | GPA: 3.87

Sept. 2023 - Expected Feb. 2027

### Sungkyunkwan University

Suwon, South Korea

Dept. Computer Science & Engineering | Exchange Program

Feb. 2026 - Jun. 2026

## PROJECTS

### SignLingo – AI-Powered Sign Language Learning App

Jakarta, Indonesia

Lead Developer, Scrum Master

Feb. 2025 - Present

- Engineered a Hybrid CNN-LSTM spatiotemporal computer vision model for real-time sign gesture recognition, achieving 95.3% accuracy across 26 gestures and reducing edge inference latency to under 50ms
- Architected the Django web application and MySQL database infrastructure, developing 35+ API endpoints to manage user authentication, gamified learning logic, and ML inference requests
- Developing a next-generation lightweight pipeline by transitioning to a MediaPipe and GRU framework, aiming to integrate non-manual signals for more robust, edge-friendly BISINDO recognition
- Directed a 10-member cross-functional team through the end-to-end machine learning lifecycle, from initial data collection and preprocessing to the deployment of the final inferencing engine

### F1 Undercut Predictor – Machine Learning Strategy Application

Jakarta, Indonesia

Lead Developer

Sept. 2025 - Feb. 2026

- Processed 3 seasons of FastF1 telemetry data, engineering 7 predictive features to reconstruct exact race states.
- Benchmarked 6 ML classification algorithms (including Random Forest, Gradient Boosting, and SVM), deploying a Logistic Regression model that optimized strategy with an 83% F1-Score and Precision.
- Constructed Pandas and Scikit-learn pipelines for standard feature scaling and robust baseline data imputation.
- Integrated the predictive ML model into a Flask app for real-time forecasts and Seaborn EDA visualizations.

### NLP-Powered Content Moderation Engine

Jakarta, Indonesia

Lead Developer

Sept. 2025 - Feb. 2026

- Engineered an NLP pipeline using Python, NLTK, and TensorFlow to automatically flag toxic community behavior.
- Fine-tuned a DistilBERT model on the Jigsaw dataset, deployed via a Flask backend inferencing engine.
- Benchmarked Naive Bayes, SVM, and Logistic Regression models using pandas, achieving a 92% accuracy

## LEADERSHIP & COMMUNITY

### Manager of Academic Events Greater Jakarta

Jakarta, Indonesia

HIMTI Binus University

Feb. 2025 - Feb. 2026

- Facilitated strategic partnerships and stakeholder management by collaborating with global industry leaders (including NVIDIA, Deloitte, and BCA) to deliver high-profile academic tech initiatives for 500+ attendees
- Led and mentored a cross-functional team of 60+ personnel, applying strong project management and organizational skills to oversee the seamless execution of technical workshops, corporate visits, and large-scale talk shows
- Navigated complex B2B communications with senior leadership and industry experts, utilizing strategic planning to ensure event curriculums aligned closely with rapidly evolving industry trends in technology and finance

## SKILLS AND FRAMEWORKS

**AI/ML:** PyTorch, TensorFlow, Scikit-learn, MediaPipe, NLTK, Pandas, NumPy, BERT, Computer Vision, NLP, LLM, GenAI

**Backend:** Python & R, PHP, C, SQL, Django, Flask, Laravel, PostgreSQL, MySQL, SQLAlchemy, Authlib, OIDC, Postman

**DevOps & Web:** Google Cloud Platform, Docker, Gunicorn, Git, Pytest, OAuth2, JavaScript, HTML/CSS

**Methodologies & Architecture:** Microservices, REST APIs, Data Modeling, SDLC, Agile (Scrum), QA