

## EDUCATION

<b>Kookmin University</b> <i>Master of Science in Electrical Engineer (GPA: 4.43/4.5)</i>	Sep 2024 — July 2026 (expected) Seoul, South Korea
<b>University of Indonesia</b> <i>Bachelor of Engineering in Computer Engineer (GPA: 3.72/4.0)</i>	Aug 2018 — Aug 2022 Depok, Indonesia

## TECHNICAL SKILLS

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<b>Tech Stack</b>	Python (Advanced), C++, Git, Bash, Flask/FastAPI, OpenCV, ROS2, System Design
<b>MLOps &amp; Cloud</b>	CI/CD, VertexAI, Docker, Kubernetes, Google Cloud, DVC, Terraform
<b>Data Science</b>	Product Recommendation, Image Processing, A/B Testing, Feature Engineering
<b>Data Engineering</b>	SQL, BigQuery, Airflow, Pub/Sub, ETL, Data Acquisition, Sensor Fusion (LiDAR/Camera)
<b>Communication</b>	English (Fluent), Korean (Intermediate), Indonesian (Native)

## PROFESSIONAL EXPERIENCE

<b>Computer Vision Researcher</b> <i>WicomAI Lab, Kookmin University</i>	Sep 2024 — Present Seoul, South Korea
<ul style="list-style-type: none"><li><b>Edge AI Deployment:</b> Engineered a lightweight Dynamic Convolution Encoder-Decoder model for drone instance segmentation, achieving <b>87% AP</b> on embedded edge devices.</li><li><b>Sensor Fusion Architecture:</b> Designed a ROS2-based multi-modal drone localization system (LiDAR, Camera), achieving high-precision depth estimation with <b>±11 cm error</b> at 20m range.</li><li><b>Performance Optimization:</b> Optimized real-time image processing algorithms, increasing object tracking throughput by <b>7x (30 FPS to 220 FPS)</b> to enable high-speed autonomous navigation.</li><li><b>Technical Leadership:</b> Spearheaded a research team of 5 graduate engineers, defining technical roadmaps for Point Cloud processing, Panoptic Segmentation, and SLAM technologies.</li></ul>	
<b>Data Scientist &amp; MLOps Engineer</b> <i>Hypefast (Largest House of Digital Native Brands in SEA)</i>	Mar 2022 — Jan 2025 Jakarta, Indonesia
<ul style="list-style-type: none"><li><b>Revenue Impact:</b> Architected a hybrid recommendation engine (Collaborative + Content-based) serving 11 brands, directly driving <b>\$427k+ annualized revenue</b> and achieving a <b>3.6% Conversion Rate</b>.</li><li><b>MLOps Infrastructure:</b> Built the company's first end-to-end MLOps platform using <b>Google VertexAI, Airflow, and DVC</b>, automating retraining pipelines and reducing model deployment latency.</li><li><b>Scalable Data Engineering:</b> Developed an OCR extraction pipeline for shipping labels, successfully processing <b>500,000+ customer profiles</b> to fuel sales lead generation.</li><li><b>Computer Vision at Scale:</b> Deployed a fine-tuned instance segmentation model for automated fashion categorization, achieving <b>54.7% mAP</b> across 46 apparel classes.</li><li><b>Data Acquisition:</b> Engineered optimized Python scrapers to harvest competitor pricing data from major e-commerce platforms, handling hundreds of thousands of daily requests.</li><li><b>Business Intelligence:</b> Collaborated with C-level stakeholders to translate complex ML metrics into actionable business insights via Metabase dashboards.</li></ul>	
<b>Machine Learning Engineer</b> <i>PT PLN (Indonesia National Electricity Company)</i>	Sep 2021 — Jun 2022 Jakarta, Indonesia
<ul style="list-style-type: none"><li><b>Big Data Architecture:</b> Designed a scalable SQL warehouse schema to ingest, clean, and standardize <b>millions of rows</b> of telemetry data from Jawa-Bali's power grid.</li><li><b>Fraud Detection System:</b> Built end-to-end classification pipelines to identify electricity theft, achieving a <b>20% actual hit rate</b> in field inspections and recovering lost revenue.</li></ul>	

## PROJECTS

<b>Enterprise-Scale Data Lakehouse &amp; MLOps Platform</b> <i>Tech Stack: Google Cloud Platform (BigQuery, Pub/Sub, Cloud Run), Airflow, Docker, Terraform</i>	Dec 2023 — Apr 2024
<ul style="list-style-type: none"><li><b>Modern Data Architecture:</b> Architected a multi-tenant data warehouse strategy separating raw ingestion from business logic layers for 11 distinct brands, successfully reducing data availability latency from <b>24 hours (T+1) to real-time</b>.</li><li><b>High-Availability Integrations:</b> Developed containerized microservices on <b>Cloud Run</b> to unify Open API integrations across major marketplaces (Shopee, TikTok Shop, Lazada), achieving a <b>99.9% uptime SLA</b>.</li><li><b>Pipeline Orchestration:</b> Engineered <b>20+ auto-scaling ETL pipelines</b> using Airflow and Pub/Sub with built-in automated backfilling, schema validation, and real-time failure alerting mechanisms.</li></ul>	