

EDUCATION

Kookmin University <i>Master of Science in Electrical Engineer (GPA: 4.42/4.5)</i>	Sept 2024 — Sept 2026 (expected) Seoul, South Korea
University of Indonesia <i>Bachelor of Engineering in Computer Engineer (GPA: 3.72/4.0)</i>	Aug 2018 — Aug 2022 Depok, Indonesia

TECHNICAL SKILLS

Tech Stack	Python, Git, Bash, Flask/FastAPI, OpenCV, ROS2, Multiprocessing
MLOps	CI/CD, VertexAI, Docker, Google Cloud, DVC, Terraform
Data Science	E-commerce, Product Recommendation, Image Processing, Feature Engineering
Data Engineering	SQL, BigQuery, Airflow, Pub/Sub, ETL, Scraping/Crawling, Sensor Fusion
Communication	English (Fluent), Korean (Intermediate), Indonesian (Native)

PROFESSIONAL EXPERIENCE

Computer Vision Researcher <i>WicomAI Lab Kookmin University</i>	Sep 2024 — Present Seoul, South Korea
<ul style="list-style-type: none">Developed lightweight Dynamic Convolution Encoder-Decoder model based on self-custom multimodal dataset for drone instance segmentation with testing AP of 87% deployed on edge device.Created testbed system using ROS2 to fused sensors (LiDAR + Camera + Radar) to localized drone and estimate distance with ±11 cm error within 20 m distance.Improved image processing algorithm to perform object tracking from 30 FPS to 220 FPS.Led Computer Vision team consist of 5 graduate students to perform research on topic such as: Point Cloud Data processing, Panoptic Segmentation, and Drone SLAM.	
Data Scientist <i>Hypefast (Largest House of Digital Native Brands in SEA)</i>	Mar 2022 — Jan 2025 Jakarta, Indonesia
<ul style="list-style-type: none">Worked alongside Data Engineer, Product Manager, Business Intelligence teams to improve brand's business performance.Developed collaborative and content-based product recommendation systems (data pipeline, AI model, dashboard) using brand's e-commerce sales data that increase brand's GMV by 6%.Built automated MLOps pipelines using Airflow, DVC, and VertexAI for data scientist team model experiment, A/B testing, and deployment in GCP infrastructure.Visualized analytics data using Metabase to provide insights for finance, marketing and brands teams.Fine-tuned instance segmentation model to perform fashion categories masking through product image with mAP 45.7% from 46 different apparel categories.Created OCR data extraction pipeline to collect more than 500,000 customers profile data (name, address, phone number) for sales lead from the shipping labels.Optimized python script to scrape hundreds of thousands brand's competitor products through e-commerce websites.	
Data Scientist <i>NTUST TEEP 2021 Internship Program</i>	May 2021 — Sep 2021 Taipei, Taiwan
<ul style="list-style-type: none">Used Pandas and Seaborn to analyzed and visualized user behaviour of smart water dispenser at NTUSTDeveloped Stacked LSTM-based model to process time series data and predict water dispenser usage with 64% performance (RMSE) compared to baseline method.	

PROJECTS

Enterprise-scale Data Platform and Warehouse Design	Dec 2023 — Apr 2024
<ul style="list-style-type: none">Designed data warehouse scheme separating raw data collections and business logic for 11 brands in fashion or health & beauty categories that accelerate data deliveries from days to real-time.Built data team internal tooling package and marketplaces (Shopee, Tiktok Shop, Lazada, Tokopedia) Open API integration deployed in Cloud Run.Created dozens of end-to-end batching and streaming ETL pipelines with automated data backfill and alerting system using Airflow, Pub/Sub, and BigQuery to fulfill business needs.	