

Jehoiada Wong

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South Tangerang, Banten - 15345, Indonesia

OBJECTIVE

High-performance Backend Engineer with a focus on AI integration. Winner of Samsung Innovation Campus (Top 0.01% of 7,500+). Expert in Python and scalable architectures with a history of reducing system latency by 70%.

EXPERIENCE

- **Apple DevOps Institute @ SQE** March 2025 - December 2025
DevOps Engineer Jakarta, Indonesia
 - Created Ansible CI/CD pipeline for application deployment end-to-end using with less than 180 seconds.
 - Optimized packer build from 15 minutes to less than 7 minutes.
 - Deployed interactable Grafana AI Agent for root cause analysis based on anomalies from observability data. Reduced analysis times from 1-3 hours to less than 10 minutes.
 - Created AI pipeline to audit terraform plan and warn developers for possible dangerous apply.
- **Apple Developer Academy @ BINUS** March 2025 - December 2025
AI Engineer (Cohort 8; 1.5% Acceptance Rate) Jakarta, Indonesia
 - Developed an IoT-based vehicle classification system using Flask and Arduino, implementing real-time data processing for toll road automation PoCs presented to industry stakeholder
 - Tech Lead (Team of 5): Architected the end-to-end system for RiSTOCK, a multiplatform inventory solution so business owners avoid stockouts; implemented a Python/MySQL Onion-Clean architecture and shared API contracts that reduced integration time by 50%.
 - Engineered and deployed a production-ready CI/CD pipeline using Jenkins and Docker for RiSTOCK, ensuring seamless backend deployment and environment consistency.
 - Developed an edge computer vision model for real-time lifting form analysis, leveraging on-device inference to provide instantaneous biomechanical feedback to users.

HONORS AND AWARDS

- **[National] 1st Winner - Samsung Innovation Campus Batch 5** September 2024
Samsung Electronics Indonesia 
 - Secured 1st place among 7,590+ participants nationwide for "Daely," an end-to-end AI/IoT safety system.
 - Recognized by the **Vice President of Indonesia** and **Toyota Motor Corp** executives for innovation in real-time drowsiness detection and social impact.
 - Engineered the full stack (AI/IoT/Cloud/Web), achieving a 0.38s inference time for life-saving alerts through optimized CV pipeline.
- **[International] Merit Award - Tertiary Category** December 2024
Asia Pacific ICT Alliance (APICTA) 
 - Ranked in the Top 4 out of 27 international teams representing 14 countries across the Asia-Pacific region.
 - Awarded for technical merit and scalability in student-led innovation, representing Indonesia as a national delegate.
- **[National] Top 7 Finalist - AI Innovation Challenge** November 2024
COMPFEST 16, University of Indonesia 
 - Top 6% (7 out of 121 teams) evaluated by Senior ML Engineers.
 - Designed and deployed N-Beats architectures for time-series forecasting of job market demands in Indonesia.
- **[International] Research Paper Presenter** December 2025
International Conference on Informatics, Multimedia, Cyber, and Information System 2025 
 - Delivered a presentation on Diabetic Retinopathy Detection System using Hybrid Convolutional Neural Network at ICIMCIS 2025.
- **Most Outstanding Student (2024 & 2025)** September 2024
Bina Nusantara University 
 - Awarded for maintaining top-tier academic performance and excellence.
- **Scholarship Mentoring Program for Even Period 2024/2025** July 2024
Bina Nusantara University 
 - Received a 16 SCU scholarship through the Scholarship Mentoring Program.
- **Scholarship Mentoring Program for Even Period 2023/2024** January 2024
Bina Nusantara University 
 - Received a 16 SCU scholarship through the Scholarship Mentoring Program.
- **Scholarship Mentoring Program for Odd Period 2023/2024** July 2023
Bina Nusantara University 
 - Received a 16 SCU scholarship through the Scholarship Mentoring Program.

EDUCATION

- **Bina Nusantara University**
Bachelor of Computer Science
 - GPA: 3.92/4.00
 - Specialized in Artificial Intelligence, Statistics, & Probability.
- September 2022 - May 2026
Jakarta, Indonesia

PROJECTS

- **Grafana Alert Agent** [\[Github Repository\]](#)
Tools: MCP, Langgraph, Discord, Playwright
 - Implemented custom tools for graph analysis for anomalies using playwright. Reduced time to action up to 70%.
 - Created multi agent framework analysis for anomalies and fire in production with performance of under 500ms end-to-end.
 - Engineered guardrails prompt to prevent jailbreak attempts.
 - **RiSTOCK: Predictive System to Avoid Stockout** [\[Github Repository\]](#)
Tools: Python, Flask, MySQL, Redis, Docker, Jenkins, UIKit
 - Implemented a unified API contract that reduced cross-team integration time by 50%.
 - Designed a time-series forecasting engine that reduced potential stockouts by 70% via restock notifications for 516 unique SKUs.
 - System Performance: Developed a scalable Python/MySQL clean architecture backend with multi-user authentication, maintaining <200ms API latency for real-time inventory synchronization; integrated backend services using Flask and Redis streams for notifications.
 - **Daely: AI-Powered Drowsiness Detection System** [\[Github Repository\]](#)
Tools: PyTorch, Flask, C, OpenCV
 - Achieved a 0.38s inference time on edge devices using optimized CV pipelines, enabling real-time safety alerts with 98.7% model accuracy.
 - Orchestrated an end-to-end IoT pipeline on Azure, managing real-time data ingestion from camera sensors to a centralized monitoring dashboard.
 - Trained 3 SOTA (YOLOv5, Vision Transformer, and Stacked Model (YOLOv5 + Vision Transformer)) architectures for stability in low-light driving environments.
 - **NutriFact: Automated Nutrition Analysis System** [\[Github Repository\]](#)
Tools: Flutter, OpenAI API
 - Built an automated label extraction system using Prompt Engineering, reducing analysis time from 3 minutes to <5 seconds (36x efficiency gain).
 - Transformed visual data into actionable insights with high-speed parsing and mobile-first UX for real-time decisions.
- June 2026 - July 2026
September 2025 - December 2025
April 2024 - September 2024
June 2024

PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

[C.1] Jehoiada Wong, Ivan Sebastian Edbert, et al. (2025). **Diabetic retinopathy detection system using hybrid convolutional neural network**. In *Proceedings of the 2025 International Conference on Informatics, Multimedia, Cyber, and Information System (ICIMCIS)*, pp. 1-6. IEEE. December 2025, Jakarta, Indonesia. DOI: 10.1109/ICIMCIS68501.2025.11327102

SKILLS

- **Programming Languages:** Python (Expert), C/C++, Swift (SwiftUI, UIKit)
- **Backend & Frameworks:** FastAPI, Flask, Protobuf, gRPC, RESTful APIs, Websockets, Onion-Clean Architecture
- **AI & Machine Learning:** PyTorch, TensorFlow, Scikit-Learn, Computer Vision (OpenCV), LLMs, CoreML
- **Cloud & DevOps:** Microsoft Azure, GCP, Docker, Jenkins, CI/CD, Git/GitHub
- **MLOps & Monitoring:** MLflow, Prometheus, Grafana, Model Optimization, Performance Benchmarking
- **Databases & Storage:** PostgreSQL, MySQL, Redis, Firebase, Swift Data