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Danang Haris Setiawan

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Education

Semarang, Indonesia **Universitas Dian Nuswantoro** **Jun 2020 - Feb 2024**

- **Degree:** Bachelor of Computer Science (GPA: 3.7) | Jun 2020 - Feb 2024
- **Programming Coursework**: Python, Golang, Javascript, Data Structures, Software Engineering, Algorithms and Complexity, Machine Learning, MVT, MVC, Mobile Programming, Flutter, Backend Dev.
- **CS Coursework**: Digital Logic, Computer Architecture, Embedded System, Computer Vision, NLP, Embedded Systems, Artificial Intelligence, Operating System.

Employment

AI Engineer **Pt Bagus Harapan Tritunggal** **Aug 2025 - Present**

- Developed an AI Policy Simulator for the Ministry of Law and Human Rights (Kemenkumham) to model and analyze the potential impacts of new legal policies within the AHU Online ecosystem.
- Designed and deployed a Decision Support System utilizing Agentic AI to automate complex workflows and provide actionable, data-driven insights.
- Spearheaded the development of a high-performance Face Recognition Engine, integrating InsightFace, Ultralytics, MediaPipe, and Django. Implemented advanced anti-spoofing and precise landmark detection to ensure highly secure biometric verification.
- Architected and trained a custom Fish Recognition System for KNMP, overseeing the end-to-end machine learning pipeline from data processing to system deployment.

Backend Engineer & Tech Lead **Pt Orbit Tech Solution** **Jul 2023 - Aug 2025**

- Led the architecture and development of complex backend systems for AI and Web3 applications, including a Real-World Asset (RWA) tokenization platform and a hyper-realistic AI golf simulator.
- Engineered predictive AI models using Physics-Informed Neural Networks (PINNs) and ANNs to accurately simulate physics and generate data-driven recommendations for fintech applications.
- Designed and implemented scalable backend solutions for smart farming (IoT integration) and multi-partner e-commerce platforms.

Freelance **Jan 2021 - Jul 2023**

- Machine Learning Engineering
- freelancer as a full-stack developer

Software Projects

Enterprise Face Recognition API

- Designed and deployed a scalable face recognition system. Engineered the core pipeline using state-of-the-art vision models to handle accurate landmark detection and liveness analysis, seamlessly served via a robust backend.
- Utilized: Python, Django, InsightFace, Ultralytics, MediaPipe, OpenCV.

AI Policy Simulator

- Developed a simulation tool leveraging Agentic AI to help government officials simulate, analyze, and predict the outcomes of implementing new legal policies before they are officially enacted.
- Utilized: Python, LLMs, Agentic Frameworks, Langchain, Ollama, Mcp, Django, Typescript.

Product Expiration Reminder

- Application for expired product management combined with deep learning with Inception ResNet V2. Can recognize the expiration date of the product packaging and can identify the level of spoilage of a product without packaging. Equipped with a barcode scan to get detailed product information.

- Utilized: Jupyter Notebook, Python, Pandas, NumPy, Matplotlib, Tensorflow, Djang.

Karpous - Real-World Asset (RWA) Platform

- Led the end-to-end backend architecture for a pioneering platform for investing in and managing tokenized real-world assets (RWAs).
- Designed and developed a complex hybrid system, tackling challenges in both centralized (Django) and decentralized (Web3) environments to ensure secure and scalable crypto transactions.
- Utilized: Django, Python, PostgreSQL, Web3, gRPC, Redis, MetaMask, React.

Fairway Golf Engine - AI Simulation

- Spearheaded the architecture of a hyper-realistic golf simulator, overseeing the entire system from code infrastructure to ML model deployment.
- Engineered the core engine using a sophisticated physics engine combined with Physics-Informed Neural Networks (PINNs) and ANNs to accurately predict ball trajectory and resting position.
- Utilized: Python, PyTorch, Django, PostGIS, PINNs, ANNs, REST APIs.

OnFarm - Smart Farming IoT Platform

- Designed the core backend architecture for a smart farming application connecting investors and farmers through real-time, verifiable data.
- Integrated various IoT devices to stream and process live field data, enhancing transparency and operational efficiency in the agricultural investment process.
- Utilized: Django, Python, gRPC, MPTT, IoT, Grafana, PostgreSQL, REST APIs.

Quantitative Trading Bot

- Developed an AI-driven system to provide actionable stock investment recommendations by analyzing market data and identifying predictive patterns.
- Managed the full project lifecycle from data processing and model development (Scikit-learn, Tensorflow) to deploying a REST API for delivering insights.
- Utilized: Python, Pandas, Scikit-learn, Tensorflow, Backtesting, REST APIs.

Additional Experience and Awards

- **Data Analyst:** Awarded a certificate as a data analyst from DQLab and Xeratic.
- **AI Mastery:** Orbit Future Academy

Skills

- **Software**: *(proficient):* Python, Go, Javascript, Tensorflow, OpenCV, Keras, Apache Kafka, Redis, PyTorch, Embedding System, LLM, Flutter, Flask, Django, PostgreSQL, Unix, Git *(familiar)*: Java, SQL, Dart, Jupyter, AWS, Flutter, HTML/CSS, Excel.