GOLDIUS LEONARD

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Professional Experience

AI Engineer

DERIV, Cyberjaya, Malaysia May 2025 – Present

- **Bug Hunter Agent PoC**, spearheaded the R&D of an autonomous testing agent leveraging Microsoft AutoGen and Playwright. The agent autonomously navigates web interfaces to detect UI/UX anomalies, establishing a foundation for next-generation automated regression testing that is projected to reduce QA cycle times by 60%.
- **Partner Fraud Detector**, engineered a near real-time fraud detection system for MetaTrader 5 (MT5) trading data, leveraging ClickHouse for high-speed analytics and HDBSCAN clustering. The system automatically flagged 60+ fraudulent partner cases daily, reducing manual review workload by 75% and preventing an estimated $50,000 in monthly revenue leakage.
- **Partner Intelligence Hub**, architected a centralized portal unifying all Global Partnership applications, securing access via Cloudflare Zero Trust and Okta. Implemented granular RBAC and App Attribute Access Control, which eliminated security fragmentation and reduced access management overhead by an estimated 40%.
- **Core Automation (iCore) Platform**, architected a unified AI orchestration layer using Google ADK, deploying 14+ specialized domain agents via FastAPI and Kubernetes. By automating end-to-end engineering workflows—including QA, issue-to-PR conversion, and low-code editing (GoRules, BuildShip)—the system slashed modification turnaround time from an average of 3 days to under 10 minutes and reduced engineering support tickets by 80%.

Pod Lead

USERDATA SDN BHD, Kuala Lumpur, Malaysia Sep 2024 – Apr 2025

- **Achieved a 60% improvement in chatbot response efficiency**, reducing Time-to-First-Chart (TTFC) from 5 minutes to 2 minutes and increasing satisfaction rates in insight accuracy from 70% to 80%.
- **Enhanced national-scale social media monitoring capabilities**, increasing scam detection from 1,000 to 50,000 TikTok videos per day for MCMC and PDRM.
- **Reduced cloud costs by 25%** through Azure-to-AWS migration while ensuring 100% service uptime with improved CI/CD pipelines.

Data Scientist

USERDATA SDN BHD, Kuala Lumpur, Malaysia Feb 2024 – Aug 2024

- **Developed an AI-powered chatbot** leveraging LLM and RAG, accelerating dashboard development from months to 5 minutes, saving RM 100,000+ per dashboard.
- **Secured MYR 36 million in Series A funding** and attracted potential MYR 300 million in Series B investment by showcasing AI capabilities.
- **Built and optimized chart generation LLM agents**, supporting multiple database systems with a 70% satisfaction rate.

Junior Computer Vision Scientist

VERIHUBS, Jakarta, Indonesia Feb 2023 – Jan 2024

- **Improved ID card OCR accuracy** from 85% to 95%, enhancing document detection system performance.

- **Increased document liveness detection accuracy to 90%** under extreme lighting and occlusion conditions.
- **Reduced AI model pipeline latency by 30%**, improving inference speed and client response times.

Computer Vision Scientist Intern

VERIHUBS, Jakarta, Indonesia Feb 2022 – Jan 2023

- **Enhanced face liveness detection model accuracy by 15%** through research and dataset diversification.
- **Developed an automated testing application** that reduced manual verification time by 40%.
- **Streamlined experiment documentation**, reducing onboarding time for new engineers by 20%.

Technical Skills

Programming: Python, C, Java, JavaScript, TypeScript

AI/ML Frameworks: PyTorch, TensorFlow, OpenCV, Scikit-learn, Langchain, Langfuse, Google ADK, AutoGen, Hugging Face

LLM: OpenAI, LiteLLM, Gemini, Anthropic, Amazon Bedrock

Development Tools: Docker, Kubernetes, Git, Apache Airflow, Metabase, ClickHouse, Okta, Cloudflare, GoRules, BuildShip, XANO

Databases: MySQL, PostgreSQL, Redis, SQL Server, Supabase

Cloud: AWS, GCP, Azure

Areas of Interest: LLMs, AI-driven Analytics, Computer Vision, Data Engineering

Education

Bina Nusantara University, Jakarta, Indonesia *Aug 2019 – Feb 2023*
Bachelor of Computer Science (Artificial Intelligence)
Summa Cum Laude (GPA: 3.92/4.0)
Thesis: SSDG Framework with Feature Mining for Face Anti-Spoofing