

# William Lo Channiko

## APPLIED AI ENGINEER

Jakarta, Indonesia | +62 813 4852 0623 | [williamlochanniko4@gmail.com](mailto:williamlochanniko4@gmail.com)

[linkedin.com/in/william-lo-channiko](https://linkedin.com/in/william-lo-channiko) | [github.com/williamlo90](https://github.com/williamlo90) | [william-lo-channiko-portfolio.pages.dev](https://william-lo-channiko-portfolio.pages.dev)

Applied AI engineer with 1 year of full-time software engineering internship experience across two terms. Built end-to-end Python/FastAPI and TypeScript/React systems spanning RAG, structured extraction, human-in-the-loop workflows, offline evaluation, and IndoBERT fine-tuning.

## TECHNICAL SKILLS

---

**Core engineering:** Python, TypeScript, SQL; FastAPI, Next.js, React; PostgreSQL, REST APIs, Docker, Git, GitHub Actions, CI/CD

**Applied AI:** OpenAI API, LangGraph, RAG, embeddings, pgvector, structured outputs, Mistral OCR, offline evaluation, human-in-the-loop workflows

**ML/NLP and testing:** PyTorch, Hugging Face Transformers, scikit-learn, IndoBERT, Optuna; Pytest, Vitest, Playwright; Kotlin, PHP/CodeIgniter, SQLite

## SELECTED AI PROJECTS

---

**Case Resolution Copilot** | [GitHub Repository](#) *Jul 2026-Present*

- Built a policy-governed case-resolution workspace with Next.js, FastAPI, PostgreSQL/pgvector, LangGraph, Clerk, OpenAI, and controlled Gmail draft integration; kept evidence, approvals, and action authority server-controlled.
- Reduced median workflow time by 84% (582s to 95s) while completing 3/3 safe workflows versus 0/3 manually in a matched synthetic benchmark; validated PostgreSQL persistence, provider-failure handling, and frontend recovery for controlled-pilot readiness.

**Invoice Review** | [GitHub Repository](#) *Jul-Aug 2026*

- Built an AI-powered invoice-to-ERP workflow with React, FastAPI, Mistral OCR, OpenAI structured outputs, and ERPNext; added deterministic validation, human review, audit history, and approval-gated idempotent draft delivery.
- Cut median invoice-to-ERP draft time by 68% (153s to 49s) while achieving the expected result in 10/10 cases versus 9/10 through direct entry; retained 98.75% exact field match and 100% validation and blocker match on a sealed synthetic holdout.

## PROFESSIONAL EXPERIENCE

---

### PT Dover Chemical

*Software Engineer Intern (Mobile and Full-Stack) | Jakarta, Indonesia*

*Jan 2025-Jan 2026*

- Built offline-first Draft Sales Order workflows for the CRM Dover Chemical Android app, enabling field-sales users to create and retain orders without connectivity; integrated 38 HTTP API operations, 15 Room entities/DAOs, and WorkManager synchronization for records, attachments, retries, and cleanup.
- Built a Customer Management System for a 6,656-record customer master dataset across 15 data domains, including CRUD/search, validated Excel imports, reporting, audit logs, and role-gated approval, rejection, and reopen paths.

## EDUCATION

---

**Multimedia Nusantara University**, Tangerang, Indonesia

2022-2026

*Bachelor's Degree in Informatics (S.Kom.)* | Graduated with Distinction | GPA: 3.82/4.00

Thesis: Fine-tuned two IndoBERT classifiers on 1,822 Indonesian social-media opinions; achieved test macro-F1 of 0.981 for sentiment and 0.870 for aspect classification, with inter-annotator Cohen's kappa of 0.954 and 0.900 on a 200-opinion reliability sample.

Honors: Academic Achievement Scholarship, 2024