

# Maulana Malik Ibrahim

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## PROFESSIONAL SUMMARY

Applied AI Engineer with a foundation in software engineering, backend systems, and enterprise delivery. Focused on turning business needs into AI prototypes, interactive demos, and product-ready workflows. Experienced in AI product prototyping, workflow integration, OCR-enabled document processing, RAG-based recommendations, and translating AI capabilities into usable product experiences.

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## CORE SKILLS

- Applied AI prototyping
- Prompt-to-product translation
- AI workflow integration
- Optical Character Recognition (OCR)
- Retrieval-Augmented Generation (RAG)
- Computer vision
- Product-focused experimentation
- FastAPI
- Python
- TensorFlow
- Front-end integration for AI experiences

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## PROFESSIONAL EXPERIENCE

### PT Dwidasa Samsara Indonesia

#### Software Engineer

Aug 2023 - Present

- Engineered and maintained high-reliability enterprise systems, strengthening delivery patterns useful for future AI product and data workflow integration.
- Optimized data-intensive processing by improving SQL query performance 30-40% on systems handling around 30 million records.
- Delivered and maintained enterprise mobile banking applications with strong standards for stability, performance, and cross-functional execution.

### PT Bilindo Info Sistema

#### Software Engineer

Sep 2022 - Aug 2023

- Strengthened product thinking, UI/UX execution, and iteration skills relevant to AI product experimentation.
- Built user-facing mobile experiences and collaborated with designers and product stakeholders.

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## SELECTED PROJECTS

### Wigo Aesthetic Platform

- Built an AI-powered skin analysis platform for acne detection and personalized recommendations.
- Implemented a RAG-based system for more accurate product recommendations.
- Used computer vision for real-time skin condition analysis.
- Built the project as a product demo that can be presented, tested, and iterated quickly.
- Stack: Python, FastAPI, TensorFlow, RAG

### AI Financial Assistant

- Built an AI assistant for financial use cases that processes information from photos into usable outputs.
- Applied OCR to extract document and image-based financial information for downstream processing.
- Combined OCR and RAG workflows to improve contextual retrieval and response quality for business-oriented queries.
- Built the project as a practical AI solution aligned with business operations and document-driven workflows.
- Stack: Python, OCR, RAG

### CORES KSEI Application

- Worked on large-scale, data-intensive systems with around 30 million records.
- Improved processing efficiency by 30-40% through query optimization.
- Coordinated data migration work across divisions to improve system performance.
- Relevance: data readiness and process efficiency for AI implementation.
- Stack: PostgreSQL

### Akademik Advisor

- Built a decision-support application that generates recommendations from weighted mathematical scoring.
- Designed the application to help users make better decisions through a simple mobile interface.
- Relevance: early product experience in recommendation-driven systems.
- Stack: Flutter, Dart

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## EDUCATION

- Bachelor's Degree in Information Systems, Universitas Nusa Mandiri
- Associate Degree, Universitas Bina Sarana Informatika

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## CERTIFICATIONS

- SQL (Basic) - HackerRank
- Java (Basic) - HackerRank
- Belajar Membuat Aplikasi Back-End untuk Pemula - Dicoding Indonesia

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## ADDITIONAL TECHNICAL SKILLS

- REST API
- PostgreSQL
- MySQL
- MongoDB
- Redis
- Docker