

FARHAN ZAHIRSYAH, S.T., M.M.

AI Product Engineer | Data Scientist

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PROFESSIONAL SUMMARY

AI Product Engineer and Data Scientist delivering end-to-end AI and software solutions, from stakeholder discovery, PRD/FRD documentation, and workflow design to development, integration, and deployment. Builds AI chatbots, CRM platforms, and business automation; develops credit-scoring and bank-statement fraud-detection models. Previous experience in trading-platform product requirements, customer analytics, regulatory reporting, and financial data automation.

PROFESSIONAL EXPERIENCE

Data Scientist (AI Product & Solutions Engineering) — PT Miliki Rumah Jakarta | Jun 2025 – Present

- Independently translated user and business problems into documented requirements, workflow improvements, solution designs, and implemented software and AI automation.
- Architected and developed an integrated AI-powered sales and marketing platform, covering frontend, backend, databases, infrastructure, API integrations, and deployment using Go, Python/FastAPI, Vue.js, PostgreSQL, and Redis.
- Engineered an AI chatbot with retrieval-augmented generation (RAG), LLM tool calling, CRM integration, WhatsApp connectivity, lead qualification workflows, and human-agent handover.
- Customized and integrated Twenty CRM for lead and opportunity management, sales pipelines, customer records, follow-ups, and AI-assisted engagement.
- Implemented Meta Marketing API, WhatsApp Cloud API, OAuth onboarding, campaign management, and Conversions API integrations; independently handled the Meta Tech Provider application process.
- Developed and continued improving ML-based credit scoring and customer eligibility/routing for mortgage products (KPR/RTO), alongside bank statement fraud detection using PDF metadata, layout anomalies, and document analysis.
- Built financial profiling with agentic LLMs and document extraction using OCR; developed asynchronous AI processing and API services.

Business Data Analyst — PT Samuel Kripto Indonesia Jul 2022 – Jun 2025

- Owned PRD/FRD and business requirements for trading-platform features, coordinating stakeholders and developers across KYC, deposits/withdrawals, trading journeys, and back-office workflows.
- Automated internal and client financial dashboards using SQL, Google Apps Script, Google Sheets, and Looker Studio; analyzed transaction and client trading data.
- Built data extraction and reporting for SRO, OJK, BPS, and Bappebti; scraped financial-market information, including Uniswap market-making data.

Project-Based Data Scientist — ID/X Partners Jun 2022

- Developed a loan risk scoring model using XGBoost and Random Forest; performed data preparation, feature engineering, and model evaluation.

TECHNICAL SKILLS

AI & ML: Agentic AI, RAG, LLM tool calling, scikit-learn, XGBoost, credit scoring, fraud detection, OCR
Engineering: Python, Go, FastAPI, Flask, Vue.js, TypeScript, SQL, PostgreSQL, Redis, Docker, NGINX, REST APIs
Integrations: Twenty CRM, Meta Marketing API, WhatsApp Cloud API, Conversions API, OAuth
Business & Analytics: PRD/FRD, requirements gathering, workflow automation, customer segmentation, Looker Studio, Google Apps Script, regulatory reporting

EDUCATION

Master of Management, Widyatama University — GPA 3.96/4.00 **Bachelor of Industrial Engineering**, Pasundan University — GPA 3.47/4.00

CERTIFICATIONS

Registered Technical Analyst (RTA) — LSP Pasar Modal (2024, during Samuel Kripto tenure) | Hacktiv8 Full-Time Data Science Program (2022) | Business Analysis Fundamentals — Udemy