

ILHAM AKBAR

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Backend Engineer specialized in Python with a **deep interest in AI** and Machine Learning. I've **collaborated remotely** with **international teams** across Indonesia, Singapore, Germany, and China, and I'm eager to contribute to innovative AI or backend projects.

WORK EXPERIENCE

AI Engineer - MyOsh

Australia | April 2025 - Oct 2025

Working Remotely

- Integrated LLM providers (OpenAI, Anthropic, xAI) into a FastAPI backend **to automate work safety report generation** and improve workplace accident documentation.
- Stacks : **FastAPI, OpenAI API, Anthropic AI, XAI, Redis**

Python Dev - Somos Digital

China | July 2022 - Oct 2024

Working Remotely

- Developed and maintained a survey platform API (from scratch), powered by OpenAI for advanced response analysis, helping stakeholders **uncover actionable insights** that shaped product strategy.
- Stacks : **Django, OpenAI API, NextJS**

Backend Eng - 360Dialog

Germany | Sept 2021 - June 2022

Working Remotely

- Built and integrated the **WhatsApp Business API** with internal systems using Flask and PostgreSQL, **improving communication** workflows and **automation** efficiency.
- Stacks : **Whatsapp Business API, Flask, Behave, Postgresql**

Backend Eng - Sydereal

Singapore | May 2021 - Sep 2021

Working Remotely

- Developed a Flask-based API gateway with MySQL on AWS RDS for a **satellite-powered IoT** fleet tracking system, **optimizing data** transmission & backend performance for real-time vessel monitoring.
- Stacks : **Flask, AWS, MySQL**

Backend Eng - Kredibel

Indonesia | July 2020 - Dec 2020

Working Remotely

- Enhanced backend performance** for product and ML services by optimizing data pipelines, **improving scalability**, and strengthening overall system reliability.
- Stacks : **Flask (Python), Postgres, MongoDB, GCP, Gitlab-CI**

Backend Eng - LeadBook

Singapore | Jan 2019 - Apr 2020

Working Remotely

- Built a robust data pipeline leveraging **web scraping**, data enrichment, and scalable ingestion with Kafka and Elasticsearch, enabling real-time analytics and improving data accessibility across teams.
- Stacks : **Python, Scrapy, BeautifulSoup, Kafka, ElasticSearch**

Backend Eng - Jublia

Singapore | Aug 2018 - Dec 2018

Working Remotely

- As a Data & DevOps Engineer, I developed **API** services using **Flask**, **RabbitMQ**, and AWS DynamoDB, ensuring efficient data processing and reliable communication.
- Stacks: **Flask (Python)**, RabbitMQ, AWS DynamoDB

Backend Eng - Makara Mas

Indonesia | Aug 2015 - July 2018

Working Remotely

- As a Backend Engineer, I integrated bank **payment APIs** for hundreds of educational institutions, streamlining **payment gateway** development for a seamless experience.
- Stacks : plain PHP, Mysql, Postgresql, Bootstrap

From 2010 to mid 2015,

*I worked as a Software Engineer (PHP) in multiple roles across various organizations, primarily in Depok and Jakarta (Including Govt. Institutions such as LAPAN/BRIN). I developed full-stack applications, including **HRIS** and research information systems, utilizing a range of technologies such as Yii, plain **PHP**, **CodeIgniter**, **PostgreSQL**, and **MySQL**. My experience includes creating internal web applications and handling both front-end and back-end development. But now **I'm no longer using PHP***

FREELANCE PROJECT

Crypto AI Agent | Russia | Feb-Mar 2025

Deployed an AI agent to automate Twitter engagement in the Crypto/Finance space.

- Integrated GPT-based content curation, sentiment filtering, and smart reply generation.
- Stack: Python, Flask, Tweepy, OpenAI API, SERP API, PostgreSQL, SQLAlchemy, Docker, Cron.
- Github : <https://github.com/ilhamije/project-01>

PERSONAL PROJECT

[1] Receipt Scanner | Oct 2025

Built a web app for AI-powered OCR to extract and track shopping receipts.

- Automated text extraction and expense parsing using OpenAI API.
- Stack: FastAPI, React (Vite), PostgreSQL, Docker.
- Github: <https://github.com/ilhamije/receipt-scanner>

[2] Gemma Disaster Management | Aug 2025

- Developed an offline AI system using **NVIDIA Jetson Nano** and Gemma3n model to analyze post-disaster data and assist SAR teams.
- Stacks: Flask, Postgres, Gemma3n Model (via Ollama)
- github: <https://github.com/ilhamije/gemma-disaster-management>

EDUCATION

- MSc in Computer Science (Specialization: Computer Vision, with broader AI/ML focus)
- BSc in (Applied) Physics