ILHAM AKBAR

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I am a **Python** specialized **Backend Engineer** with a passion for machine learning / AI, experienced working remotely with companies in Indonesia, Singapore, Germany, and China. I'm seeking for a role in **AI/ML or Backend Engineering**

WORK EXPERIENCE

Python Dev - *Somos Digital*
China | July 2022 - Oct 2024

Working Remotely
- As a Backend Engineer, I built and maintained a **Survey Platform API**, integrating **OpenAI** for advanced data analysis. This enabled stakeholders to extract insights from survey responses, guiding product development.
- Stacks : **Django, OpenAI API, NextJS**

Backend Eng - 360Dialog
Germany | Sept 2021 - June 2022

Working Remotely
- As a Backend Engineer, I integrated the **WhatsApp Business API** with internal systems using **Flask** and **PostgreSQL**, ensuring seamless communication.
- Stacks : **Whatsapp Business API, Flask**, **Behave**, Postgresql

Backend Eng - Sydereal
Singapore | May 2021 - Sep 2021

Working Remotely
- As a Backend Engineer, I built a **Flask-based API** gateway with MySQL on AWS RDS for a **Satellite IoT system** tracking fishing boats. I optimized data exchange.
- Stacks : **Flask, AWS, MySQL**

Backend Eng - Kredibel
Indonesia | July 2020 – Dec 2020

Working Remotely
- As a Backend Engineer, I improved the stability, efficiency, and scalability of the Product and Machine Learning backend services, optimizing data flows and system reliability.
- Stacks : **Flask (Python)**, Postgres, MongoDB, GCP, Gitlab-CI

Backend Eng - LeadBook
Singapore | Jan 2019 – Apr 2020

Working Remotely
- As a Backend and Data Engineer, I built a robust data pipeline using web scraping, enrichment techniques, and scalable ingestion with Kafka and Elasticsearch.
- 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

Built a lean, smart AI agent for automating and scaling Twitter engagement in the Crypto / US finance space.
- **What it does:**
  Posts curated content, tracks replies, and auto-responds with context-aware, sentiment-filtered messages using GPT.
- **Stacks:**
  Python, Tweepy, Flask, OpenAI API, SERP API, SQLAlchemy, PostgreSQL, Docker, Cron
- **Flow :**
  Info gathering → Curated tweet DB (GPT-based) → External scheduler → Smart reply filter (GPT-based) → ORM-based logging