

IQBAL FAKHRIZA

SOFTWARE ENGINEER | MACHINE LEARNING ENGINEER

Jakarta Selatan, Indonesia | iqbalfakhriza089@gmail.com | iqbalf.my.id

SUMMARY

Software Engineer with 3+ years of experience in full-stack software development and a strong background in Machine Learning. Proven ability to design, develop, and optimize complex software solutions, with a passion for leveraging AI to drive innovation. Seeking to contribute expertise in software engineering and AI automation to dynamic techcompanies, delivering impactful and scalable solutions.

PROFESSIONAL EXPERIENCE

Software Engineer, PT. Lion Superindo

Jan 2025 - Present

- Developed and optimized a secure **finance platform** using **Next.js** and **.NET**.
- Engineered a robust and scalable **PostgreSQL** database, implementing complex **stored procedures** that improved financial calculation efficiency and ensured data integrity.
- Collaborated with cross-functional teams to translate evolving regulatory requirements into technical solutions, consistently delivering compliant financial software releases **100% on schedule**, preventing potential fines and enabling new business functionalities.
- Designed and implemented critical modules for seamless financial data management, integrated document verification systems, and developed export features for Excel and PDF reports, **enhancing audit efficiency** and improving analysis capabilities for key stakeholders.

Fullstack Developer, Universitas Sumatera Utara

Sep 2021 - Jan 2025

Led the full-stack development and successful deployment of over **40 university websites**, strategically focusing on **code structure, performance optimization, and SEO**, which contributed to a measurable improvement in Universitas Sumatera Utara's **international rankings** and a significant increase in organic traffic.

Backend Engineer Intern, Yayasan Anak Bangsa Bisa

Feb 2022 - Aug 2022

Mastered backend development with **Ruby on Rails 5** and **SQLite**, applying **Test Driven Development (TDD)** methodologies to build robust and maintainable code, reducing post-deployment bugs. Developed a comprehensive job-seeking API as the capstone project, successfully demonstrating proficiency in API design and development.

Project Leader, IT Fest USU Event Platform

Jan 2022 - Apr 2022

- Led a 9-member cross-functional team** in the end-to-end development and successful deployment of a comprehensive event platform for ITFest USU, **managing project timelines and deliverables** to ensure on-time completion.
- Designed and developed core functionalities including a **competition dashboard, secure ticketing system, and robust event management features**, supporting over 200 event participants and streamlining administrative processes.
- Pioneered the integration of immersive **3D stages and directed multimedia production** using **Aximmerty** and **Unreal Engine 4**, enhancing user engagement and providing a unique virtual event experience.

PROJECTS

Pursida, POS App

Developed Web based Point of Sales (POS) application including **data transaction management** and **cashier** to help our client **UD. Pursida** manage their product and transaction

SBS Cosmetics, Website

Developed a **landing page** and **product showcase** to highlight the company's business processes and attract B2B clients.

Agentic TikTok Carousel Maker, AI Service

Powered by **CrewAI**, **Canva**, and **n8n**, it automates content creation from research to ready-to-upload carousels in a fraction of the time.

CNN Audio Visualizer App, AI Website

I built a simple app to explain classifying sound using the open-sourced ESC-50 Dataset. I use **Next.JS** for the frontend and **Pytorch** and **FastAPI** for the backend service.

SKILLS

Next.js	.NET	Laravel
Typescript	PostgreSQL	Vue.js
Spring Boot	Python	Pytorch
N8N	Research Writing	Google Cloud API

EDUCATION

Bachelor of Information Technology

Sep 2019 - July 2024

Universitas Sumatera Utara

- **Thesis:** Prediction of Solar Radiation Using Hybridization of Deep Q Network (DQN) and Gated Recurrent Unit (GRU) Algorithms
- **Extracurricular:** Information Technology Student Association, Research and Development Division (2021–2022), Committee Member, PIMNAS 34 (2021) Judging Room Operator

PUBLICATIONS

Improving Water Quality Classification in Lake Toba with Deep Learning Approach

jaitit.org/volumes/Vol103No11/3Vol103No11.pdf

ADDITIONAL INFORMATION

- **Languages:** English, Indonesian.
- **Primary Focus:** Software Engineering, AI Automation, Machine Learning, and Research
- **Github:** github.com/iqbal89co
- **Linkedin:** linkedin.com/in/iqbal-fakhriza/