

Althaf Nafi Anwar

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EDUCATION

Universitas Indonesia, Depok

S.T, Teknik Komputer (B.Eng, Computer Engineering equivalent)

2021-2025

Graduated with a **cumulative GPA of 3.85 /4.00**.

EXPERIENCE

E3 Accounting, Singapore (Remote)

Software Engineer

03/2026 – Present

- Built a **distributed async task pipeline** using Celery and Redis for LLM-powered document intelligence, decoupling processing from core workflows with reliability and observability in mind.
- Implemented an **LLM-powered document scanning feature**, enabling automated extraction and categorization of structured data from unstructured receipts and invoices.
- Contributed to API design, schema migrations, and feature delivery in a global distributed team, maintaining testing discipline and documentation practices.

Key Technologies: Python, Django, MySQL, Celery, Redis, LLM, Docker

LatentSpace, Jakarta, Indonesia

Technical Project Manager

01/2026 – 03/2026

- Defined and oversaw technical architecture for an **AI Agent-powered chatbot CRM platform**, working closely with engineers on system design, conversation flows, and data integration.
- Did prompt engineering and iterated on LLM agent behavior to meet client requirements, bridging product needs with engineering implementation.
- Managed end-to-end **API integrations** including WhatsApp Business API and CRM webhooks, ensuring service reliability and alignment with client expectations across distributed touchpoints.

Key Technologies: AI Agents, LLMs, Prompt Engineering, REST APIs, Python

Grab, Jakarta, Indonesia

Software Engineer Intern (Mobile)

02/2025 – 06/2025

- Developed features and UI components for the Grab passenger app, collaborating closely with designers, backend engineers, and PMs in a **cross-functional product team**.
- Implemented **snapshot and unit tests** across major app flows, improving release confidence and CI/CD reliability.
- Participated in code reviews and contributed to technical documentation, maintaining high code quality standards across the team.

Key Technologies: Swift, SwiftUI, UIKit.

Apple Developer Academy, Jakarta, Indonesia

Junior Developer

03/2024 – 12/2024

- Built **multiple iOS applications** using SwiftUI, UIKit, and Core frameworks, focusing on performance and clean architecture with their respective **backends**.
- Implemented real-time data handling and background processing for mobile applications.
- Worked on projects involving sensor data such as computer vision, and IMU (CoreMotion), and on-device ML (CoreML, Vision).
- *Key Technologies:* Swift, SwiftUI, UIKit, SpriteKit, CoreML, Vision, TypeScript, Firebase Cloud Messaging, Hono, PostgreSQL.

Autonomous Marine Vehicle UI (Robotics Research Team), Depok, Indonesia

Software Engineer (Robotics)

02/2022 - 08/2024

- Led a team of 6 engineers in the ongoing advancement of autonomous and manual control systems for underwater and surface vehicles using Python, and ROS (Robot Operating System).
- Designed modular perception and localization pipelines using **computer vision** models (YOLO, visual odometry), deployed and tested on real-world robotic systems.
- Built **software pipelines** integrating IMU and camera for **localization** and navigation.

- Worked closely with hardware components, microcontrollers, and embedded systems over wired and wireless communication.
- *Key Technologies:* Linux, Python, ROS, OpenCV, Deep Learning, Docker, Behavior Trees, Arduino, Microcontrollers/Embedded Systems, Gazebo, Web Technologies (JS and etc).

PT. Inti Utama Solusindo (Pharos Group), Jakarta, Indonesia

Software Engineer Intern

01/2024 – 02/2024

- Implemented a **real-time computer vision system** with backend management for scalable product management system and semi real-time inference support using Django, optimizing for speed and reliable data processing.
- Integrated **asynchronous job queues** with **RabbitMQ** and Pika to facilitate communication between the admin interface and object detection system.
- Contributed in **designing the system architecture**, ensuring scalability and efficiency.
- *Key Technologies:* Python, OpenCV, Pika, RabbitMQ, Django, Celery

CEO (Center Of Engineering) FTUI, Depok, Indonesia

Web Developer

06/2023 - 08/2023

- Engineered and crafted the **website for CEO FTUI (Universitas Indonesia’s Engineering Faculty) yearly event**, spotlighting job prospects for Engineering Faculty students at Universitas Indonesia.
- *Key Technologies:* Figma for design, Tailwind for styling, NextJS for frontend development, and Vercel for deployment.

SELECTED PROJECTS

mAIMeal: AI Meal Planner for Diet

2024

- Built end-to-end: LLM + RAG backend (LangChain/FastAPI), mobile app (Flutter), and web (NextJS/TypeScript), rapidly validating a product hypothesis from prototype to working system.
- *Key Technologies:* Python, LangChain, tRPC, Drizzle, PostgreSQL, Cloudflare, FastAPI, Flutter, NextJS

Wizards (for NUS Medical Grand Challenge 2024)

2024

- Developed a real-time multi-service platform integrating vision-based action classifiers with live inference pipelines and a data visualization dashboard — awarded People's Award
- *Key Technologies:* Python (Pandas, Numpy, Scikit, OpenCV, FastAPI), JS (NextJS), MongoDB.

HONORS AND AWARDS

Peoples’ Awards NUS Medical Grand Challenge 2024, Singapore (International)	2024
Finalist Singapore Autonomous Underwater Vehicle Competitions, Singapore (International)	2024 & 2022
National Finalist and 2nd Place Regional KRBAI 2023, Semarang (National)	2023
3rd Place Technogine 2023 in the ROV Category, Bandung (National)	2023
4th Place KKCTBN 2023 on Autonomous Control Ship Category, Depok (National)	2023
2nd Place KKCTBN 2022 on Autonomous Control Ship Category, Surabaya (National)	2022

SKILLS

- **Languages:** [Professional] English with **8.0 in IELTS**, [Native] *Bahasa Indonesia*
- **Backend & Systems:** Python, Django, FastAPI, Go, Node.js (Hono/Express), C/C++, Celery, Redis, RabbitMQ, Docker, REST APIs
- **Frontend & Mobile:** TypeScript, NextJS, Swift, SwiftUI, UIKit, Dart/Flutter, AngularJS, Tailwind CSS
- **Data & Cloud:** MySQL, PostgreSQL, MongoDB, GCP, Firebase
- **IoT and Robotics:** C/ C++, OpenCV, ROS, Docker, Microcontrollers, Raspberry Pi, RabbitMQ, MQTT.
- **AI & ML:** LLM Integration, AI Agents, Prompt Engineering, RAG, LangChain, CoreML, OpenCV, YOLO, Deep Learning