Ariq Fachry Ramadhan

Software Engineer

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SUMMARY

Backend Engineer with **2+ years of experience** building scalable web app services using **NestJS, TypeScript**, and **GCP** as primary cloud infrastructure. Strong foundation in system design, API development, caching strategies, and production deployment using Cloud Run. Recently explored AI Engineering through hands-on project implementations with **LLM APIs, LangChain, and FastAPI**. Experienced working with multi-region teams remotely. Comfortable working in Agile teams, passionate about developer growth, and eager to contribute to impactful and user-centric products.

EDUCATION

- **State University of Surabaya** (October 2019 – July 2023)
  Bachelor of Applied Science with **GPA 3.81 –** Software Engineering

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COURSES AND CERTIFICATIONS

Ruangguru AI Mastering Program (Skill Academy) (March 2025 - June 2025)

- Completed a comprehensive program covering practical topics in **machine learning**, **computer vision**, and **large language models (LLMs)**.
- Individually developed an **AI-powered self-improvement chatbot** deployed on **Telegram Bot**, using **FastAPI** for backend integration via webhook while core functionalities are implemented with **LangChain** and **OpenAI.** Including several agent-based prompting and tool usage. Utilized **MongoDB** for conversational memory storage. As well integrated **HuggingFace models** for daily **mood analysis.**

Ruangguru Back End Engineering Carrer Acceleration Program (Ruangguru CAMP) (August 2022 - December 2022)

- Graduated with a final GPA of 4.00, having completed all backend engineering coursework provided by Ruangguru.
- Selected as a Mentor Assistant, supporting fellow students in understanding course material and achieving high academic performance.
- Gained hands-on experience in foundational web backend development using Go, including writing and maintaining unit tests.

EXPERIENCES

Untukmu.AI and Foru.AI – Junior Backend Developer (June 2023 – Present)

- Built and refined **NestJS**-based backend systems for key operational modules such as orders, logistics, and merchants. Boosting API performance by implemented **Redis caching** and validating improvements using **K6 performance testing**.

- Built and collaborated on the prototype of an AI-powered assistant using FastAPI and OpenAI LLM as well as connecting the assistant to the front-end using **Websockets**, aimed at personalized gift recommendations. Integrated SerpAPI and Blibli's product data to enhance recommendations, resulting in 20,000+ active users. Also contributed to the prototyping of a smart tagging system for merchants for Untukmu.AI v2, working in collaboration with the IBM team to develop an AI-driven solution.
- Built backend systems for platform gamification aimed the ForU AI token airdrop in **Telegram Miniapp** and **Telegram Bot** by utilizing webhook for bot interactions. Supporting a user base of **8+ million users**.
- Built backend systems for social analyzer for Twitter (ADD OAUTH) and JWT
- Worked across a modern stack: **PostgreSQL**, **MySQL**, **Redis**, **ClickHouse**, and **GCP** for deployment infrastucture. Frequently initiated and configured **Cloud Run services** for new microservices and internal tools.
- Collaborated with cross-functional, multi-national teams via Lark, adapting effectively to a fast-paced startup environment focused on rapid delivery and scalability.

Nanobee Singapore – Part-Time Software Engineer (December 2022 – December 2022)

- Built a Telegram bot using **TypeScript** with Node.js, integrating **Firebase Firestore** as the primary database solution.
- Contributed remotely to a product-driven team, delivering a functional bot under tight timelines

Tokocrypto - Backend Developer Internship (March 2022 – August 2022)

- Designed and implemented core backend services for an internal web-based Asset Management and Technology Portal using the **NestJS** with **MySQL**, and documented RESTful APIs using **Swagger**.
- Collaborated in a cross-functional team following Agile and Scrum practices to ensure timely delivery of backend features while utilizing **Jira** to manage tasks, monitor project progress, and report issues efficiently.

PROJECTS

- **Rune AI – Personal Daily Improvement** (2025)
  Rune AI is a Telegram-based chatbot designed to help users achieve long-term goals through daily, gamified progress tracking. It breaks down user-defined objectives into manageable tasks, making consistency easier and more rewarding. Beyond productivity, Rune AI also serves as a personal companion—allowing users to share daily stories and reflections. Built using **FastAPI**, **MongoDB**, **OpenAI's LLM**, **LangChain**, and a **HuggingFace** mood classification model.
- **Rika – AI Resume Personal Assistant** (2024)
  Rika is a AI Chatbot available on Telegram. By utilizing **OpenAI**, she will be a reliable and knowledgeable guide to reveal the magic in my resume. Users can ask about my career, achievements, or anything professional related. This project was built on **Nodejs** with **Typescript**.

- **Pofits – Personal Finance Web App** (2023)
  A personal finance management app designed to transform the way you budget and save. Experience the power of envelope budgeting strategy, seamlessly integrated with advanced expense and income category modules. In this project i mainly do the full-stack development using **Nestjs** and **Nextjs**. Deployed in a Virtual Machine, configured cloudflare for assigning DNS and SSL for the backend.
- **GenPieBot – Genshin Impact Profile Fetcher Telegram Bot** (2022)
  GenPieBot is a Telegram bot that will help the user to fetch their genshin impact in-game profile data. User can inspect the data such as their nickname, adventure rank, world level, statistic of showcased characters and more. This personal project developed using Typescript NodeJs.
- **TRAST – Technology Request Administration System in Tokocrypto** (2022)
  TRAST is a web based application aimed for managing requests from outside tech departments in Tokocrypto to the tech departments. Requests that can be requested in this application such as: Creating a new system, bug fixing, application improvement, and others tech related things. This application was developed using NextJs, NestJs, MySQL and AliOSS. Within this project, i took the role as backend developer while also assisting manpower for the frontend, aimed to deliver the work in time.
- **TAMI – Tokocrypto Asset Management Inventory** (2022)
  Web based application aimed for managing assets including its activites such as propose asset, repair an asset, returning assets from employee, and acquisitioning assets. Developed using NextJs, NestJs, MySQL, and AliOss. In this project team, i took the role as backend developer.
- **Lara Tales** (2021)
  Lara Tales is an Action 2D Platformer game and consist several stages with enemy and bosses. This game is developed using **Unity Engine** and using **C#**. In this project i took the role as the main programmer while my team consist of story writer, and in-game area designer.
- **Spotify Wrapped Twitter Analytics** (2021)
  Big data Analysis on Most Tagged Artist in Spotify Wrapped Indonesia 2021. Analyzed by retrieving tweets uploaded on Twitter with the hashtag of #SpotifyWrappedIndonesia. The project was utilized Python and Google Collab.

TECHNICAL SKILLS

- **Frameworks:** NestJs, FastAPI, NextJs
- **Languages**: Typescript, Python, C#, PHP, Go
- **Data Storage:** MySQL, PostgreSQL, MongoDB, Firebase, ClickHouse, Redis, ElasticSearch
- **Others:** Google Cloud Platform (Cloud Run, Bucket/OSS, Compute Engine, CloudSQL), K6, Unity, Docker