Dhafin Fawwaz Ikramullah

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Software Engineer & Backend Developer with extensive projects experience, **Internship** as **Computer Vision Engineer, 1st Place** on GEMASTIK XVII, Biggest Tech Competition against **206 Universities**, 2nd Place on local Machine Learning Kaggle Competition, created motion library with over **500 Stars** on Github, a tutor, presentation speaker, **Lab Assistant**, and **Certified as the Most Outstanding** Informatics Engineering student in my major.

Currently available for WFO Internship from 23 June to 22 September and WFH afterwards.

EDUCATION

Bandung Institute of Technology | Informatics Engineering | GPA : 3.77/4.00 | 6th Semester | **2022 - Present**

EXPERIENCE

Programming Lab Assistant at ITB   July 2024 - Present
- Created projects and practicum, covering Algorithm & Data Structure, Object Oriented Programming, Web Dev, Mobile Dev. Competitive selection with only **12 of 75** accepted.

Software Engineer at Memento   Jan 2025 - March 2025
- Developed Photo Booth Desktop App with **Video Editor** for the frame clip layout, **Payment Gateway**, Printer & Camera integration, with **Website**, **Backend Server** & **Database**, and Gmail Notification using Tauri, Rust, Next.js, FFMPEG, Supabase, Vercel, Midtrans.

Web Based Development Tutor at HMIF   Dec 2024
- Taught web development exam covering Web, Proxy, Microservice, Monolith, REST API, Architecture, and more.

Computer Vision Engineer Internship at Rolling Glory   June 2024 - Sept 2024
- Developed an App for an advertising event with **Computer Vision** for **real time 3D video filters** and occlusion using GPU that hides the back part of a necklace or hat which even Tiktok didn't implement using Unity Engine.

Game Dev Speaker at GIM Apprenticeship 2024 Day 0   Sept 2024
- Presentation for New Member Admission at Ganesha Interactive Media

Game Dev Speaker & Tutor at SPARTA HMIF Career Day   July 2024
- Presentation and tutor for Game Dev at Student Orientation in my major.

Game Programmer at FSRD ITB   June 2024 - Aug 2024
- Developed an Educational Game collaborate with Digital Art Student for a Final Project using Unity Engine.

Intro to Computation Tutor at GAMAIS   Sept 2023
- Taught Python, simple Discrete Math, and Logical & Computational questions for an exam.

Game Programmer at ITB Jatinangor   July 2021 - Sept 2021
- Developed Visual Novel Game to introduce the new Campus Branch in Unity Engine integrated with Firebase.

ACHIEVEMENT

2nd Place Machine Learning Kaggle Competition among Informatics Students   April 2025
- Achieved **99.309% accuracy** on predicting animal images utilizing **CNN (Convolution Neural Network)**

Most Outstanding Informatics Engineering Student   March 2025
- Based on best awards, organizational involvement, excellent grades among all informatics students of batch 2022.

1st Place GEMASTIK XVII Game Development   Sept 2024
- Biggest National Game Dev Competition by the Ministry of Education & Technology attended by **206 Universities**, solved SDG 4 & 8, and won **IDR 35.000.000**. Created Top Down & Resource Management Game.

Finalist ITFest 2024 Web Development   Sept 2024
- Developed Web with **OCR** (Optical Character Recognition) on National Competition by Padjadjaran University.

ORGANIZATION

Tech Lead at GIM Web Development   Jan 2024 - Present
- Lead Software Engineer for an Organization Website, integrated with my **Custom Open API Library for Next.js and Zod**, Playwright, Storyblok CMS, PostgreSQL Database, Prisma ORM, Discord Bot, etc.

Treasurer & External Relation at GIM JAM 2025   Dec 2024 - Feb 2025
- Manage Finance & do External Relation work to contact and coordinate the speaker for the awarding event.

Head of Game Development at PRA-GEMASTIK 2024   March 2024 - Aug 2024
- Selection of ITB representative for Gemastik with Himpunan Mahasiswa Teknik Informatika (HMIF).

President of GIM Apprenticeship 2023   June 2023 - Feb 2024
- 6 months process of new member selection for GIM Apprenticeship 2023 and alternate programming trainer.

PROJECTS

Wikipedia Race   dhafinfawwaz.com/project/wikirace-solver
- Wikipedia race solver with nodes visualization, **web scraping, multithreading** using BFS and IDS Algorithm.
- Technology: Go, Fiber, Docker, Vite, Pixi.js, Tailwind.

AnimationUI   dhafinfawwaz.com/project/animationui
- Open source Motion/Tweening Library with Visual Editor for Unity Engine, **+500 stars** on Github. Made with reflection, complex data structure like hashmap of float to linked list, design patterns..
- Technology: Unity Engine, C#.

Linkinpurry Social   dhafinfawwaz.com/project/linkinpurry-social
- Social Media Website with **realtime chat, database, k6 load test**, OpenAPI docs with Swagger, etc.
- Technology: Socket.io, Hono.js, Docker, PostgreSQL, Redis, Swagger, k6, React, Tailwind, Typescript.

Bezier Curve Generator   dhafinfawwaz.com/project/bezier-curve-generator
- Interactive Visualized & Animated Bezier Curve Generator Website with DnC & Brute Force Algorithm.
- Technology: Vite, Pixi.js, Tailwind, Javascript, Vercel.

Shell Operating System   dhafinfawwaz.com/project/oslahpokoknya
- Operating System written in C & Assembly with File System, Shell, Multiprocessing, Context switch, etc.
- Tech: C, Assembly, Qemu, Linux.

Magic Cube Solver   dhafinfawwaz.com/project/magic-cube-solver
- AI Algorithm like Genetic, Simulated Annealing, Stochastic Hill Climbing, etc. with 3D Animated Visualization.
- Technology: Three.js, Vite, Typescript, Chart.js, Tailwind, Vercel.

Film Store   dhafinfawwaz.com/project/film-store
- Ecommerce website about buying film with **caching, database, polling, automated End to End testing**, etc.
- Technology: Django, Docker, PostgreSQL, Redis, Python, Playwright, Tailwind, Javascript.

SiAbsen   dhafinfawwaz.com/project/siabsen
- Notification bot website for student attendance presence with **Scheduler, Cron Job**, Authentication.
- Technology: Next.js, React, PostgreSQL, Inggest, Vercel, Firebase.

Ocular   dhafinfawwaz.com/project/ocular
- Content-based Image Retrieval with web scraping, multiprocessing, backend server, and database.
- Technology: C, Next.js, Django, Tailwind, SQLite, React, Typescript.

Pace Break   dhafinfawwaz.com/project/pace-break
- Fast platformer combat, Hollow Knight inspired Game, with Observer, Finite State Machine, Shader VFX, etc.
- Technology: Unity Engine, C#, HLSL/ShaderLab.

Expiration Reminder   dhafinfawwaz.com/project/expiration-reminder
- Reminder Mobile app with QR Code integrated with OpenAI API for auto-generated description.
- Technology: Flutter, Express.js, MongoDB, Dart, SQLite, Node.js, Vercel.

Purritify   dhafinfawwaz.com/project/purritify
- Music Player & Management Mobile App with authentication, queue, miniplayer, upload and edit music, etc.
- Technology: Jetpack Compose, Kotlin.

Breach Protocol Cracker   dhafinfawwaz.com/project/magic-cube-solver
- Solver with GUI made in C using Brute Force Algorithm, compiled to .so format, called by python for the GUI..
- Technology: C, PyQt, Python.

Le Mari   dhafinfawwaz.com/project/le-mari
- Outfit management desktop app with CRUD for clothes, tag system, and outfit grouping system..
- Technology: Python, Flet, Gitlab CI/CD, SQLite.

SKILLS

Programming Languages
- Go, C#, Python, Typescript, Javascript, C, C++, Java, SQL, HLSL/ShaderLab, PHP.

Technologies
- Git, Docker, Next.js, Django, Fiber, React.js, Tailwind, D3, Express.js, Vite, SQLite, MySQL, Oracle Cloud, Redis, Three.js, Socket.io, Hono.js, Storyblok, Vercel, Supabase, Tesseract, OpenAPI/Scalar, AWS, Coolify, Unity Engine, Playwright, CI/CD, k6, postman, MongoDB, PostgreSQL, Pixi.js, Phaser.js, Tauri, Qt, Flutter, React Native, Jetpack Compose, Qemu, Virtual Box, CUDA, OpenMPI.

More experiences, achievements, and projects at dhafinfawwaz.com