

Dhafin Fawwaz Ikramullah

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Software Engineer with extensive projects experience, **Internship** as **Software Engineer**, Computer Vision Engineer, **1st Place on GEMASTIK XVII**, Biggest Tech Competition against **206 Universities**, created motion library with over **600 Stars** on Github, **Head IT** at **2** organizations, a tutor, presentation speaker, **Lab Assistant**, and **Certified as the Most Outstanding** Informatics Engineering student in my major.

EDUCATION

Bandung Institute of Technology | Informatics Engineering | GPA : 3.75/4.00 | 7th Semester | **2022 - Present**

EXPERIENCE

Software Engineer Internship at Flip

Dec 2025 - Present

- Built a system to send email for some bank transfer cases with unit test with > 90% code coverage.
- Integrated Activity Logging to QRIS Service and Created internal API for getting transfers with **Go, PostgreSQL, Gin, Mux, Docker**.

Software Engineer Internship at Laku6

June 2025 - Dec 2025

- Migrated **payment** system from OCBC to ACME with inhouse **A/B testing & flagging** library, modification & communication with **5 microservices** using **Go, gRPC, Kafka, PHP, Symfony 2, PostgreSQL, k9s, Docker**.
- Built features for missing phone model reporter integrated with **slack** notification, survey question system, fix duplicate imei bug, event workflow validation, forwarding gps location, and more using **Go, Gorm, gRPC**.
- Built features in **legacy system** for Singtel ordering flow such as SMS Scheduler with PHP, Symfony 2, Vonage.
- Created a **state machine** based tax invoice system with Mekari Klikpajak API using Go, Gorm, gRPC, Kafka.
- Built new UI and integrated feature with communication with iframe embedded website using **Next.js, React**.

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 app with **Video Editor** for the frame clip layout, **Payment Gateway**, Printer & Camera integration, with **Website, Backend Server & Database**, and **Gmail Notification** for payment reporting using **Tauri, Rust, Next.js, FFMPEG, Supabase, Vercel, Midtrans, Doku**.

Computer Vision Engineer Internship at Rolling Glory

June 2024 - Sept 2024

- Developed a photo booth app for an advertising event with **Computer Vision** for real time 3D video filters like augmented overlaying accessories with **shader** based occlusion handling using Unity Engine.
- Developed physics based bubble popping web game with Phaser.js.
- Conducted research and development for various AI libraries like **MediaPipe, MMPOSE, Pytorch, Baracuda**.

Game Programmer at FSRD ITB

June 2022 - Aug 2025

- Developed educational games collaborate with Digital Art Student for 8 Paid Projects using Unity Engine.

ACHIEVEMENT

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

Head IT at Arkavidia 10.0

Sept 2025 - Present

- Led 8 heads and 16 staffs of Frontend, Backend, UI/UX Designer for an IT competition & event website.
- Implemented and integrated secure API for submission with file upload and proper deadlock prevention, authentication with Google **OAuth** & email code verification, cron backup with **Minio, Postgres, Google Drive**
- Built type safe API with **Go, Gorm, Huma, OpenAPI, Next.js, HeyAPI, Tanstack Query, Zod, React Hook Form**.
- Setup **CI/CD** with **Github Action** for tests, lint checks, code coverage integrated with Sonarqube for static analysis and auto deploy to **Oracle Cloud VPS** using **Coolify** and **docker compose** utilizing internal network features for fast communication between server side frontend and backend.
- Integrated website with data analytics using google apps script on google spreadsheet.

- Setup, monitor, and maintain the website using **Grafana**, **Promtail**, **Loki**, **Prometheus**.

Head IT at GIM Web Development

Jan 2025 - July 2025

- Led 25 staffs of Frontend, Backend, UI/UX, Visual Artist, Content Researcher, for organization's official Website
- Setup and integrate features with Next.js, Zod, Tanstack Query, HeyAPI, Playwright, Prisma, Supabase, Discord..
- Integrated Storyblok CMS with React and high speed on demand page revalidation without redeploys.

Treasurer & External Relation at GIM JAM 2025

Dec 2024 - Feb 2025

President of GIM Apprenticeship 2023

June 2023 - Feb 2024

- Led 30 people for GIM's new member selection process of 220 people in 6 months.
- Established and implemented new strategies, results in new members contributing to 4 major national level wins.

PROJECTS

Wikipedia Race

dhafinfawwaz.com/project/wikirace-solver

- Wikipedia race solver with nodes visualization, **web scraping**, **multiprocessing** using BFS and IDS Algorithm.
- Technology: Go, Fiber, Redis, Docker, Vite, Pixi.js, Tailwind.

Linkinjury Social

dhafinfawwaz.com/project/linkinjury-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.

AnimationUI

dhafinfawwaz.com/project/animationui

- Open source Motion/Tweening Library with Visual Editor for Unity Engine, **+600 stars** on Github. Made with reflection, complex data structure like hashmap of float to linked list, design patterns..
- Technology: Unity Engine, C#.

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.

SiAbsent

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.

SKILLS

Programming Languages

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

Technologies

- Git, Docker, Next.js, Django, gRPC, 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, Kafka, Symfony, SonarQube, Grafana.

More experiences, achievements, and projects at dhafinfawwaz.com and linkedin.com/in/dhafinfawwaz