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 : 3.78/4.00 | 8th Semester | **2022 - Present**

EXPERIENCE

Software Engineer Internship at Flip   **Dec 2025 - Present**
- Migrated data correction flow to single API from of multiple service call for every nonterminated transactions
- Deploy services with **ArgoCD** and monitor logs with **Grafana** using data from loki, promtail, prometheus.
- Integrated activity logging to QRIS Service, API for updating refund automation status, disturbance management, send email for many transfer cases and more with **Go, PostgreSQL, Gin, Mux, Docker**, all > 95% test coverage

Software Engineer Internship at Laku6 (Carousell)   **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 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 and many more.
- Built type safe API with **Go, Gorm**, Fiber, Huma, OpenAPI, Next.js, HeyAPI, Tanstack Query, Zod.
- 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 Github Action, **Coolify** and **docker compose**.
- 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**
- Managed Finance & do External Relation work to contact and coordinate the speaker for the awarding event.

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**, **multithreading** using BFS and IDS Algorithm.
- Technology: Go, Fiber, Redis, Docker, Vite, Pixi.js, Tailwind.

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.

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.

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.

SKILLS

Programming Languages
- Go, Java, Python, PHP, C#, Typescript, Javascript, C, C++, 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