

RAFIF MUHAMMAD FARRAS

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Computer Science student at IPB University (GPA 3.81) working across full-stack development and AI engineering. Comfortable carrying a system from the first requirements conversation through to something people use every day — an internal document management platform, a village website adopted by its local government, an AI-backed health app. Most drawn to problems where the hard part is understanding what users actually need, not only writing the code.

EXPERIENCE

PT Reasuransi Indonesia Utama — Jakarta

Sep 2026 – Present

Fullstack Development Intern, IT & Software Development

- Building the web-based document editor at the centre of EDMS, the company's in-house electronic document management system replacing a manual workflow of Word templates, spreadsheet numbering, and physical distribution.
- Implemented Word-like authoring on Tiptap — pagination, tables, image handling, paste-from-Word, keyboard shortcuts — plus a template wizard and official letterheads for the company's Tata Naskah Dinas document types.
- One of two developers on the project, owning the login, dashboard, document creation, and object-storage lanes within a microservices architecture; ships through GitLab merge requests with senior review.
- Found that the document header guideline provided did not match letters the office had actually sent, documented both versions, and raised it with the team rather than picking one silently.

TropBRC — Tropical Biopharmaca Research Center, Bogor

Aug 2025 – Feb 2026

Research Intern & Frontend Developer

- Built and optimised the front end of iPrimeTarget, a protein network analysis platform, turning dense algorithm output into readable UI components and cutting visualisation latency.
- Worked alongside lecturers and bio-scientists to translate research requirements into interface decisions, collecting feedback directly from the researchers using the platform.

Computer Science, IPB University — Bogor

Feb 2026 – Jul 2026

Laboratory Assistant, Software Engineering

- Mentored and assessed 50+ students in software engineering methodology, agile frameworks, and project planning.
- Ran weekly lab sessions on system analysis, UML modelling, and implementation; wrote the practical coding assessments and guided student teams to a delivered product.

EDUCATION

IPB University (Institut Pertanian Bogor) — Bogor

Aug 2023 – Jun 2027 (expected)

B.Sc. Computer Science · GPA 3.81 / 4.00

Coursework: Software Engineering, Database Systems, Object-Oriented Programming, AI & Computer Vision, Computer Networks & Infrastructure.

MAN 13 Jakarta — South Jakarta

Jul 2020 – May 2023

High School Diploma, Natural Sciences · 92.32 / 100.00

Coding Camp powered by DBS Foundation (Dicoding) — Remote

2025

Full-Stack Web Development Cohort · Capstone Lead Developer

- Selected for an intensive academy covering industry-standard full-stack ecosystems; led the capstone build of Habitscape with a cross-functional team.

SELECTED PROJECTS

DIGDAYA — Village Digitalisation Platform

Astro · Cloudflare

- Sole developer of a full-stack platform for Desa Loji, Sukabumi, with a CMS simple enough for non-technical village administrators to run on their own after handover.
- Shipped village profile, UMKM directory, news, interactive map, and tourism modules with admin documentation; now officially adopted as the village's primary digital information channel.

Habitscape — AI-Integrated Nutrition & Health Platform

Capstone Lead Developer

- Designed the platform around removing manual food and health logging, connecting ML pipelines from the AI and data teams into backend APIs and a clean interface.
- Integrated image-based calorie counting, lifestyle predictive analytics, and a generative health summary.

Winvit — Digital Invitation Platform

Laravel 12 · React 19 · Inertia SSR

- Self-initiated and solo, from PRD to CI: a platform where students publish academic invitations, from thesis defence through graduation, onto a permanent link from designed templates, with a Story Card export for sharing on campus.
- Server-rendered guest pages, Cloudflare R2 media with purge-on-write, Google OAuth, and an anonymous draft flow that claims into an account on sign-in. 139 tests passing, with build, lint, and suite run on every push.
- MVP complete as of Sep 2026. Remaining work is real-user testing, the template library, and taking it to market.

tumbuh — Career & Internship Tracker

React · FastAPI · PostgreSQL

- Built a full application that helps university students track applications and growth milestones, with deadline-aware sorting so the next thing to act on sits at the top.
- Designed the data model and the secured API layer behind it, shaping the dashboard around what a student needs to decide on first.

Safrons — Soil Nutrient WebGIS Platform

GeoJSON · PostGIS

- Built an interactive mapping platform rendering spatial data layers of regional soil nutrient profiles for farmers and agricultural experts, and trained students on the spatial data workflow ahead of field deployment.

ROP Classification Model

Computer Vision · Medical Imaging

- Trained a computer vision model to classify Retinopathy of Prematurity from clinical retinal images, using image preprocessing and segmentation pipelines to improve accuracy over the baseline.

Financial Recording System — SMK Walisongo

First Paid Client · Solo

- First paid solo engagement, taken on after hearing staff describe how much of their financial recording was still done by hand. Ran the whole thing myself: requirements, PRD, build, revisions, and deployment.
- Mapped the existing paper workflow into a structured digital system and wrote the documentation staff use for daily entry, monitoring, and reporting. Delivered well ahead of the schedule the client expected.

Exotic Mahseer — Company Profile Website

Responsive Web

- Designed and launched a responsive corporate site, applying asset optimisation and compression for fast loads on mobile connections.

ORGANISATIONAL EXPERIENCE

IEEE IPB Student Branch

Dec 2023 – Jan 2026

Human Resource Director (Dec 2024 – Jan 2026) · Director of Recruitment & Retention (Dec 2023 – Dec 2024)

- Ran internal organisational systems across 8 sub-divisions and the resourcing, staffing, and conflict resolution behind 4+ major tech events.
- Grew the recruitment pipeline by 30% through campus outreach, screened 100+ applicants, and designed a two-week onboarding programme with engagement tracking.
- Drafted and ratified the branch's constitution and bylaws (AD/ART) with the executive board, establishing the regulatory framework still governing the student branch.

HIMALKOM IPB — Computer Science Student Association

Nov 2024 – Feb 2026

Supervisory Board Member (Badan Pengawas)

- Facilitated statutory assemblies, coordination meetings, and inaugurations, and audited divisional compliance, performance, and financial accountability.

IPB Data Mining Community

[periode]

Core Team — Curriculum & Learning

- Shaped the community's data mining learning path — choosing the topics, sequencing them into a coherent curriculum, and preparing the material used in study sessions.
- Supported members through the programme, stepping in wherever a session needed material, guidance, or an extra pair of hands.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), PHP, Java, C++, R, SQL

Frameworks: React.js, Next.js, Node.js, Express.js, FastAPI, Django, Laravel, Inertia, Spring Boot, Astro

Data & Infrastructure: PostgreSQL, PostGIS, MongoDB, Redis, Amazon ElastiCache, AWS S3, Cloudflare (R2, CDN), Nginx, REST API design, microservices

Tools: Git, GitHub, GitLab, Postman, Figma, Notion, Trello, Slack

ADDITIONAL

Languages: Indonesian (native) · English (advanced, TOEFL ITP 620)

Committee roles: Caffeine AI Builders Day × ICP Hub Indonesia (event committee) · I-Night HIMALKOM (funding) · IEEE STEM (logistics) · SSMI General Lecture (event staff)

Volunteer: LPK Tepi Sawah — supported educational and social community programmes