

FAAID SAKHAA

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linkedin.com/in/faaid-sakhaa | GitHub | Portfolio

Information Engineering undergraduate at Universitas Gadjah Mada with experience in data pipelines, full-stack applications, and financial and Web3 prototypes. Hackathon winner interested in software engineering, data systems, and emerging technologies. Eager to learn from experienced teams and build solutions for practical challenges.

EDUCATION

Universitas Gadjah Mada July 2024 - July 2028 (Estimated)
Bachelor of Information Engineering (GPA: 3.41 of 4.00)

MAN 1 Yogyakarta July 2021 - April 2024
Mathematics and Natural Science (Grade: 90.14)

PROFESSIONAL EXPERIENCE

PT Suitmedia Kreasi Indonesia November 2026 - Present
Software Engineer Intern (Backend)

- Will work alongside senior software engineers to develop backend systems that support web and mobile applications, learning how technical solutions are built to meet project needs
- Will support the delivery of requested applications within the agreed scope and timeline while building practical experience in a professional software development environment

DTETI FT UGM – Universitas Gadjah Mada February 2026 - Present
Software Development Project Assistant

- Developed a Python data pipeline to convert 561 academic assessment Excel workbooks across 9 semesters into structured JSON, handling inconsistent templates and preserving cached formula results during preprocessing.
- Built a REST API ingestion workflow for academic reports; validated program, semester, and record counts in backend responses for 27 uploaded reports.
- Contributed to an academic reporting application built with Next.js, React, TypeScript, FastAPI, SQLAlchemy, PostgreSQL, Docker, and Python, improving metric displays and implementing portfolio updates scoped to submitted periods.

SELECTED PROJECTS

LedgerFlow – Wallet & Financial Operations Simulator | GitHub
Project Owner & Developer | Java, Spring Boot, PostgreSQL, JPA, Spring Security, Flyway, Next.js, TypeScript, Docker

- Developed a simulated wallet and financial operations console with atomic transfers and paired debit/credit ledger entries; no real money is processed.
- Implemented concurrency controls and idempotent retries, plus JWT authentication, role-based access, wallet ownership checks, and staff approval workflows.
- Added transactional audit records, compensating reversals, and internal balance reconciliation; validated critical flows using PostgreSQL integration tests and local browser scenarios.

DuitLo – Personal Finance Web App | GitHub
Project Owner & Developer | Next.js, React, TypeScript, Go, PostgreSQL, Supabase, OpenRouter

- Developed a personal finance PWA for tracking wallets, transactions, budgets, and savings goals, backed by authenticated APIs and PostgreSQL row-level security.
- Implemented retry-safe transaction writes and version checks, and built a scheduled Go reporting pipeline for data extraction, aggregation, and private CSV archives.
- Integrated Qwen receipt extraction through OpenRouter with validation and fallback handling; the committed codebase passed 382 unit and integration tests.

Gatherly – Community Event Ticketing Prototype | GitHub
Backend Dev & Team Lead | TypeScript, Node.js, Express, MongoDB, Mongoose, Midtrans Sandbox

- Contributed to a team-built event ticketing backend, with a focus on authentication, event management, ticket types, and organizer workflows
- The prototype supports concurrent reservations using database transactions and idempotency keys, plus server-side verification of sandbox payments

- Includes ticket issuance and one-time check-in flows; backend and frontend type checks passed during a local audit

HushFlow – Confidential RFQ Settlement Prototype | GitHub
Web3 Project | TypeScript, Next.js, Solidity, viem, PostgreSQL, Docker

- Prototyped a testnet RFQ workflow for encrypted FXRP-to-USDT0 quotes, with smart-contract escrow, signed result validation, and settlement claims
- Combined a TypeScript resolver and FCC adapter with a simulated confidential-compute path; the frontend remains a controlled demo
- Documented an 11-transaction controlled settlement drill across three wallets on Flare Coston2 testnet

PassChick – Real-Time Arcade & Wallet Integration | GitHub
Frontend & Wallet Integration Contributor | Next.js, React, TypeScript, Socket.IO, Wagmi, Viem

- Developed responsive game and wallet interfaces for team-built Monad and Celo iterations of a real-time arcade application.
- Integrated MiniPay-compatible and external-wallet authentication, including SIWE flows and user-facing recovery states.
- Implemented frontend ticket, rewards, and leaderboard flows using team-built APIs; 66 focused frontend tests passed locally across authentication, gameplay, ticketing, and rewards.

Sangu – Cross-Border Remittance Prototype | GitHub
Full-Stack Developer | TypeScript, Next.js, Fastify, PostgreSQL, Rust, Stellar/Soroban

- Contributed to sender and recipient flows for preparing transfers, sharing claim links, verifying OTPs, and tracking payout status.
- Integrated frontend flows with authentication and transfer APIs, including passkey-wallet and Soroban escrow transaction workflows.
- Contributed to a Stellar/Soroban testnet prototype with an SEP-24 test-anchor withdrawal flow; Indonesian fiat payout remains simulated.

AmanPay – Digital Commerce Escrow Prototype | GitHub
Project Owner & Developer | TypeScript, Next.js, Rust, Stellar Soroban, Supabase

- Contributed to a Stellar Testnet escrow prototype for digital-service agreements, with funding, delivery review, refunds, and dispute resolution
- The prototype combines API routes and Supabase metadata with on-chain deal hashes and participant-based access checks
- Includes wallet signing and a frontend Vitest suite with 44 tests passing in a local audit

HONORS & AWARDS

- 1st Place, Monad Blitz Hackathon Jogja 2026 — PassChick
- 10th Place, Proof of Ship Celo International Hackathon 2026 — PassChick
- 4th Place, Stellar APAC Hackathon Indonesia (Payment & Consumer App) — Sangu
- Awardee, Beasiswa Pendukung UGM 2025/2026
- Best Graduate, Mathematics and Natural Science Program — MAN 1 Yogyakarta, 2023/2024

TECHNICAL SKILLS

- **Programming:** Python, TypeScript, Java, Go, JavaScript, C++, Rust, SQL, Solidity
- **Frameworks & APIs:** React, Next.js, Spring Boot, FastAPI, Fastify, Express, Mongoose, SQLAlchemy, Tailwind CSS, REST APIs, Socket.IO
- **Data & Infrastructure:** PostgreSQL, MongoDB, Supabase, Docker
- **Tools:** Git, GitHub, GitLab, Vitest, Playwright

LEADERSHIP & ACTIVITIES

UGM Blockchain Club – Universitas Gadjah Mada December 2025 - Present
Lead of Event Department

- Coordinated five blockchain events, including the Base Indonesia Campus Program (100+ attendees), Mobee seminar (50+ attendees), and workshops on SUI, Bittensor, and Stellar (40+ developers each).
- Directed committee coordination and oversaw event preparation, from budget planning to on-site operations.

Public Relations KMTETI – Universitas Gadjah Mada January 2025 - Present
Person in Charge, Benchmarking Program

- Coordinated KMTETI's first outbound benchmarking visit to Fasilkom UI, arranging transportation and supporting 50+ participants on site.
- Organized visits involving HIMTI UNAIR, HME ITB, and HIMATEKTRO ITS, with around 100 participants from both sides; managed schedules, budgets, refreshments, and guide briefings.

FINDIT 2026 – Universitas Gadjah Mada September 2025 - May 2026
Sub-coordinator of Equipment, Logistics, and Consumption

- Planned and produced event props and ceremonial items, estimated material costs, and coordinated equipment rentals with vendors.
- Organized meals and refreshments for 100+ committee members and 200+ competition participants on the final day.
- Coordinated equipment setup and on-site logistics to support the final-day event.

Open House DTETI – Universitas Gadjah Mada August 2025 - November 2025
Coordinator of Equipment, Logistics, and Consumption

- Coordinated event prop preparation, equipment, decorations, and budget planning for Open House DTETI.
- Arranged meals and refreshments for 80+ committee members and supported on-site logistics.
- Supported booth preparation for 40+ Capstone Expo teams, including tables, chairs, and cabling.

Pionir Kesatria 2025 – Universitas Gadjah Mada April 2025 - August 2025
Co-Facilitator

- Co-facilitated the Gatotkaca 5 group with two fellow guides, supporting 50+ incoming students during a two-day Faculty of Engineering orientation.
- Introduced students to the faculty and essential aspects of university life, while supporting their physical and emotional well-being.
- Guided group participation in team-based activities, including an applied project.

LANGUAGES

- Indonesian (Native), English (Intermediate)