

MUHAMMAD IQBAL RAMADHAN

Full-Stack Engineer · AI Engineer

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SUMMARY

Full-Stack Engineer with 6+ years of experience building web platforms, backend services, and AI systems across enterprise, startup, and freelance work. Currently the sole engineer behind Baskit OS, a company-wide internal AI platform where employees ask questions and generate reports in natural language, with access to finance and operations data scoped by permissions.

Focused on deterministic-first LLM design, secure data access, and correctness in financial workflows. Previously led frontend module development for AP2T, PLN's national-scale enterprise platform, and built the frontend for Fishlog's multi-tenant warehouse management system (WMS) and blockchain-based traceability platform for the fisheries supply chain.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Golang, PHP, SQL

AI / LLM: LLM agents, tool calling, text-to-SQL, guardrails (PII redaction, prompt injection), Vercel AI SDK, ONNX, Gemini

Backend: Node.js, Express, Hono, Bun, FastAPI, Echo (Golang), REST API, OpenAPI / Swagger, Socket.IO

Frontend: React.js, Next.js, Vue.js, Pinia, Zustand, React Query, Tailwind CSS, Ant Design, Shadcn UI

Databases: PostgreSQL, MongoDB, MySQL, TypeORM, Drizzle ORM, Mongoose, SQLAlchemy 2.0, Alembic

Cloud & DevOps: AWS (EC2, ELB, S3), Kubernetes, Helm, Docker, GitHub Actions, Jenkins, Grafana, Loki

WORK EXPERIENCE

Baskit · Full-Stack Engineer · AI Engineering

Oct 2025 – Present

- Designed and built Baskit OS as sole engineer, Baskit's company-wide internal AI platform, now live for all employees. Owned the full stack, from auth (Google SSO + JWT), the team-level permission model, and a provider-agnostic LLM layer to deployment on AWS with Kubernetes, Helm, Docker, and GitHub Actions, and authored the platform's Architecture Design Document, reviewed by the Principal Engineer. Its chat agent lets employees ask questions in plain language over Xero accounting and BCP operational data and get back answers, table reports, diagrams, flowcharts, and HTML outputs, without needing database access. Every LLM-generated query runs through a sandboxed text-to-SQL tool with single-SELECT enforcement, permission-based table allow-lists, and forced row limits, and every tool and LLM call is written to an audit log that outlives the chat session. Its AR Workflow reconciles BCA and HSBC bank statements against Xero invoices through a 16-rule deterministic cascade: rules perform all matching and amount calculations, the LLM only assists with reasoning on ambiguous cases, and 6 critical gaps were resolved before launch, including an idempotency bug that would have created duplicate financial records in Xero. A WhatsApp chatbot (Twilio) handles brand assessment, order confirmation with customer accept/reject, and order placement.
- Building Baskit Boost, the centralized payment service that consolidates all company payment flows. Integrated credit card payments through a bank payment gateway, and currently extending it to virtual account payments via Xendit.
- Backend engineer on BCP, Baskit's operations core platform and commercial ERP, integrated with Xero, covering distributor and brand management, sales and purchase orders, invoicing, and third-party warehouse operations.
- Led zero-downtime migration of BPD, the live internal payment dashboard, from Supabase to AWS: rebuilt the backend and migrated all data and files over one weekend, with the production switch completed in a 3-minute GitHub Actions deployment.

Stack: Node.js, TypeScript, Express, TypeORM, PostgreSQL, MongoDB, Next.js, Gemini, Xero API, Twilio, Xendit, AWS, Kubernetes, Helm, Docker, GitHub Actions

Kandara Tech · Full-Stack Developer

Dec 2024 – Jun 2025

- Contributed to AP2T, a national-scale enterprise platform for PLN, Indonesia's state-owned power utility, developed with GSP and PLN Icon Plus.
- Led frontend development for modules covering new installation requests, power adjustments, customer monitoring, and master data management, used across PLN's national operations. Built step-based workflow UIs for multi-stage approvals and integrated APIs across modules.
- Implemented Micro Frontend architecture to support parallel development across teams; built reusable Vue components with Pinia state management.
- Prepared Transfer of Knowledge (ToK) documentation to ensure clean handover and long-term maintainability.

Stack: *Vue.js, Pinia, Tailwind CSS, Ant Design Vue, Micro Frontend***Fishlog · Frontend Developer**

Jul 2022 – Jun 2024

- Built the WMS frontend from scratch, a multi-tenant ERP-like interface with real-time sync via Socket.IO, adopted across Fishlog and its partner cold storage network for day-to-day warehouse operations, including batching, QR-based tracking, and B2B marketplace integration.
- Developed the client onboarding system end-to-end, including digital signature flow and automated MoU PDF generation, replacing a previously manual process.
- Delivered frontend for the Traceability and Blockchain apps, including a public traceability view from catch to delivery, improving data transparency and auditability across Indonesia's fisheries supply chain.
- Built shared UI component libraries and starter boilerplates that standardized development patterns and accelerated delivery across multiple product teams.

Stack: *React.js, TypeScript, Bootstrap, Tailwind CSS, Socket.IO, Google Tag Manager***Freelance · Full-Stack Developer**

Apr 2022 – Present

- Delivered full-cycle web systems for clients in Indonesia, from requirement analysis through deployment.
- Projects span travel booking platforms, admin dashboards, mining operations tools, luxury rental platforms, government case management systems, and pilgrim management systems.
- Part of the team building Smart Bengkel, an automotive workshop platform with AI built into its operational workflows.
- Collaborated with other freelance developers on client projects in Australia and Japan, including a vehicle booking platform, contributing to frontend and feature development.

Stack: *React.js, Next.js, Vue.js, TypeScript, Golang, PostgreSQL, Tailwind CSS***PT Delameta Bilano · Engineering Trainee · Technician**

Oct 2021 – Apr 2022

- **Engineering Trainee** (Oct 2021 – Dec 2021): built a final-project web app integrated with payment gateway hardware.
- **Technician** (Jan 2022 – Apr 2022): supported Tol Bali Mandara operations, writing SQL queries to manage and back up transaction data, producing operational reports, and maintaining the electronic payment system.
- Gained hands-on experience with microcontrollers, network systems, and software-hardware integration.

Kejar.id · Frontend Developer · UI/UX

Feb 2020 – Aug 2020

- Designed the UI/UX for the LMS (Matrikulasi) and built its frontend myself, owning delivery end-to-end.

Stack: *Figma, HTML5, SASS, Laravel Blade, REST API, Docker*

OTHER PROJECTS

Palang AI · Open-Source LLM Security Gateway · Open source · published · github.com/iqbalr3000/palang-ai

OpenAI-compatible gateway that sits between applications and LLM providers to enforce security policies. Scope includes Indonesian-aware PII redaction (NIK, NPWP, phone numbers), layered prompt-injection detection (heuristics → ONNX classifier → optional LLM judge), tool-call policy enforcement for AI agents, canary-token leak detection, and async audit logging with a monitoring dashboard.

Stack: TypeScript, Bun, Hono, Drizzle ORM, PostgreSQL, Transformers.js (ONNX), Next.js

API Service Boilerplate · Open source · github.com/iqbalr3000/api-service-boilerplate

Production-ready Node.js, Express, and TypeScript foundation for API services, used as the base for production services at work, including BFF and core services.

Stack: Node.js, Express, TypeScript

Block Builder · Mapped Out Solutions · Australia

Contributed to a visual task management tool for longwall mining operations. Drag-and-drop pin system for real-time task tracking on a digital block layout, optimized for 60" touchscreen monitors.

Stack: React.js, Next.js, TypeScript, Tailwind CSS, Shadcn UI, React Query

BPASN · Badan Pertimbangan Aparatur Sipil Negara (BKN) · Indonesia

Backend for the state body that rules on administrative appeals from civil servants facing dismissal, with optimized PostgreSQL queries and robust data integrity controls over case data.

Stack: Golang, Echo, PostgreSQL, Swagger

Rihla Travel Platform · Rihla.co.id · Indonesia

Responsive travel booking platform covering hotels, Haramain train, and vehicle rentals. Built reusable components with full API integration across all booking features.

Stack: React.js, Next.js, TypeScript, Tailwind CSS, Ant Design, Zustand

Umroh.in · Platform & Admin Dashboard · Indonesia

Pilgrim-facing booking app and internal admin dashboard for managing bookings, payments, and customer interactions. Built reusable components with full API integration.

Stack: React Ionic, React.js, Next.js, TypeScript, Tailwind CSS

EDUCATION

Institut Teknologi dan Bisnis Swadharma · Undergraduate

2023 – 2027 (expected)

Bachelor of Informatics Engineering (Teknik Informatika)

Wikrama Vocational High School · SMK

2018 – 2021

Software Engineering