

MUHAMMAD FARUQ

Fullstack Engineer

 [GitHub](#) |  [Email](#) |  [Telegram](#)

I am Fullstack Web Engineer and Informatics Engineering graduate. I build web applications with React, Next.js, NestJS, and PostgreSQL, from user interface to database design. Before building, I anticipate how a feature could fail or be misused, so the result is not only functional but effective. Currently learning Cyber Security and Web3. Open to Fullstack and Frontend Engineer roles.

Education

AUG 2022 – JULY 2026

Informatics Engineering, UIN Sultan Syarif Kasim Riau (GPA 3.81).

- Graduated with a thesis on Smart Contract Security .
- Learned OOP Programming, Data Structures, Database Management Systems, UX Design, Web Programming, and Mobile Programming.

AUG 2019 – MAY 2022

Mathematics and Science, SMAN 3 Tanah Putih

- Strive to master materials in science and math subjects relevant to informatics engineering.
- Has been the chairman of the Student Council and was also active in participating in several events.

Experience

JULY 2026 – PRESENT

Fullstack Engineer - Rantai Pasok Halal (Research Project), UIN Sultan Syarif Kasim Riau

- Tackle the complexity of monitoring a large-scale food supply chain program by transforming a previously fragmented, manual evaluation process into an integrated, data-driven decision support system.
- Align performance assessment standards across multiple actors (production kitchens, suppliers, distributors, and schools).
- Automate the conversion of raw field data into measurable, real-time performance indicators.
- Eliminate evaluation bias through a validated expert-consensus model.
- Resolve various mathematical calculation logic anomalies to ensure reporting accuracy, operational efficiency, and full transparency in distribution quality.

FEB 2025 – JUNE 2025

Fullstack Engineer / Intern, Environmental Engineering Department, Universitas Riau

- Collaborated with 2 teammates to develop a Latest (Linear Administration of Environmental Engineering Thesis) for the Environmental Engineering Department.
- Responsible for designing and implementing system features to streamline the thesis administration process.

FEB 2024 – AUG 2024

Laboratory Assistant Informatics Engineering, UIN Sultan Syarif Kasim Riau

- Responsible for maintaining the Computer and Networking Lab.
- Assist student practicum related to lectures if needed.

SEP 2024 – DEC 2024

Laboratory Assistant Informatics Engineering, UIN Sultan Syarif Kasim Riau

- Responsible for maintaining the Software Engineering Lab.
- Assist student practicum related to lectures if needed.

Projects

Rantai Pasok Halal MBG  [Web](#)

- A web-based Decision Support System (DSS) for monitoring and evaluating the performance of the Free Nutritious Meals (MBG) program's supply chain, integrated across multiple actors (SPPG Kitchens, Suppliers, Distributors, and Schools).
- Built on a fullstack Next.js App Router architecture with TypeScript, Prisma ORM, and a PostgreSQL (Supabase) database.
- Integration of the SCOR (Supply Chain Operations Reference) model with a 2-Level Multi-Expert Analytic Hierarchy Process (AHP), using Geometric Mean Pairwise aggregation and Consistency Ratio validation ($CR \leq 0.10$) to produce 59 global criteria weights across 4 supply chain entities (SPPG, Supplier, Distributor, School).
- An auto-mapping pipeline that converts quantitative field data into standardized evaluation scales, handling unit conversions, zero-defect tolerances, and special ratio scenarios.
- An event-driven auto-recalculation engine that automatically and instantly recomputes each actor's composite performance score whenever a questionnaire instrument is updated or an AHP weight version is reactivated.
- Tech Stack: Next.js, TypeScript, TailwindCSS, Prisma ORM, Supabase, Cloudflare R2.

Baitul Mal Repository

- An AI-powered personal financial tracker that replaces manual expense forms with conversational chat and voice notes, letting users log cash flows in everyday, colloquial Indonesian.
- Integrated Google Gemini AI for multimodal voice-to-text and contextual JSON parsing, paired with an autonomous local regex/heuristic fallback engine to keep transaction logging available during API latency or rate limits.
- Built generative UI confirmation cards inline in the chat stream, giving users full control to review and edit entries before they commit to PostgreSQL.
- Cut expense-recording time from 30+ seconds of form navigation down to a 3-second voice note or quick text message.
- Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Shadcn UI, Prisma ORM, PostgreSQL, Google Gemini AI, NextAuth.js.

Latest (Linear Administration Thesis Environmental Engineering) Frontend Backend

- Developed a comprehensive web-based administration system for managing thesis processes at the Environmental Engineering Department, Universitas Riau.
- Tech Stack: NextJS, NestJS, TypeScript, Prisma ORM, Supabase, Google Drive API Integration.
- Implemented features for document management, submission tracking, and automated workflows.

Achievement

MAR 2024

Top 10th Front-End WebDev Competition

- Together with my team, Pemuda Hijrah, we developed the front-end for our web application CollegeTIF.
- The competition was held at the INFINITY 2.0 event organized by Informatics Engineering of Gunadarma University.

JAN 2024

Top 2nd UI/UX Mobile App Design Competition & Figma Design

- Together with my team, Pemuda Hijrah, we designed the UI/UX for our mobile application 'Ilm. It is an E-Learning application that will help in the learning process.
- The competition was held by Informatics Engineering of Riau Islamic University to celebrate their 16th anniversary with the theme "Enhancing The Intellectuality of Future Developers To Envolve The Highly Era".