

Mutiur Rahman

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Skills

Languages: JavaScript, TypeScript, Python, Java, C++, C, C#, PHP, SQL

Frontend: React, Next.js, Vue.js, Tailwind CSS, Framer Motion, Zustand

Backend: Node.js, Express, NestJS, FastAPI, Django, Flask, Laravel, .NET

Databases: PostgreSQL, MySQL, Oracle, MongoDB, Redis, Firebase, Supabase

DevOps & Cloud: AWS, Docker, Nginx, GitHub Actions CI/CD, Cloudflare, DigitalOcean, GCP

Other: Prisma, TypeORM, Drizzle ORM, Stripe, Socket.IO, Git/GitHub, Postman, RQ, Sentry, Slack

Work Experience

Alturavent, Bogota, Colombia.

June 2026 – Present

Remote Full Stack Developer

- Converted from contract to full-time after delivering the OneSource and Call Automation platform work below; continuing to build and maintain both platforms in an expanded, ongoing capacity.

Contract Developer

February 2026 – June 2026

OneSource Platform

- Built and maintain a multi-tenant SaaS platform unifying e-commerce and marketing analytics, architected as a monorepo (NestJS/TypeORM/PostgreSQL backend, Vue 3/Pinia storefront, React marketing site, Python AI microservice).
- Implemented multi-tenant data isolation via a custom CompanyScopeInterceptor, with RBAC enforced through permission-based route decorators.
- Built integrations aggregating data across 13+ third-party platforms (Shopify, WooCommerce, Vtex, Google/Meta/TikTok/Amazon Ads, GA4, HubSpot, Zoho, Pipedrive) into unified dashboards.
- Integrated Google Gemini to power AI-generated insights, automated reporting, and “what-if” analysis on aggregated data.
- Architected AWS infrastructure (EC2, ECR, GitHub Actions CI/CD, Nginx, SSL via Certbot) and migrated production database to AWS RDS.

Call Automation Platform

- Built a multi-tenant AI voice-call automation platform (Next.js + NestJS) on top of the Vapi voice AI SDK, with a layered guard chain (Supabase JWT → tenant → member → role).
- Designed feature modules for AI agent management, custom tool integrations, phone number provisioning, call analytics, and a voice profile/library system.
- Implemented Stripe billing with subscription credits and auto-recharge, encrypted credential storage, and webhook ingestion for Vapi and Stripe events.
- Used Drizzle ORM for type-safe schema migrations across the platform's PostgreSQL database

Projects

School Management System | [Live](#)

March 2025 - Present

- Built and maintain an enterprise-grade school management system (npm workspaces monorepo) live in production for a real institution, covering admissions, academics, attendance, and communications end-to-end.
- Engineered an automated result-processing engine: merit list generation, auto-promotion logic (computes final merit, next-year roll and section), and Puppeteer-generated PDF marksheets and routines.
- Built an integrated SMS system with templated, automatic attendance alerts to parents and delivery/cost tracking, queued via Bull + Redis for reliable async processing.
- Designed an online admission pipeline with merit/waiting-list processing and specialized multi-step registration forms for different grade levels (Class 6, 8, SSC).

- Implemented strict RBAC across Admin/Teacher/Student roles, cloud file storage (AWS S3/Cloudflare R2) and bulk data import via XLSX.
- Built with React (dashboard) + Next.js (public site), Tailwind/Shadcn UI, and Zustand on the frontend; Node/Express and Prisma/PostgreSQL on the backend.
- Solved cross-domain authentication for multi-tenant frontends via a Cloudflare Worker BFF proxy, eliminating third-party cookie blocking across customer subdomains.

QSync - Queue Management System for Healthcare Facilities (Android)

Academic Project

- Built a dual-portal Android app (patient + admin) in Java for real-time appointment queuing across hospital departments and doctors.
- Implemented priority-based queuing (normal/urgent/emergency), live queue tracking with expandable admin views, and department/doctor management tools.
- Integrated Firebase Authentication and Realtime Database for role-based access and live sync; followed MVVM with Fragment-based navigation.

Observa - Real-Time Monitoring & Analytics Platform | [Live](#)

May 2026 – Present

- Building a self-hosted platform for tracking frontend and backend events in real time.
- Implemented distributed event processing with Redis Pub/Sub and WebSocket-powered live dashboards.
- Designed SDK architecture for JavaScript and backend framework integrations; built ingestion pipelines and analytics APIs with FastAPI, PostgreSQL, Redis, and Docker.

Other projects: Karubid (live interior-design & multi-service platform), Fundit (crowdfunding platform, project lead role), and a personal portfolio site — see github.com/Mutiur03 for details.

Education

Khulna University of Engineering and Technology, Khulna, Bangladesh.

Oct 2023 – 2027(Expected)

BSc in Computer Science and Engineering

Relevant Coursework: Structured Programming, Discrete Mathematics, OOP, Data Structures & Algorithms, Microprocessor and Microcontroller, Computer Architecture, Digital Logic Design, Numerical Methods, Theory of Computation, Android and Desktop Application Development, Web Development, Database Design, System Design.

Awards and Certificates

- Winner, Cyber Hero 2022 — Organized by Cyber-71 & Arena Web Security