



RIFAT BIN SIRAJ

Senior Full Stack Engineer · AI Platform Builder · 5+ Years Experience

📍 Dhaka, Bangladesh ✉️ rifatrabbi024@gmail.com ☎️ +880 1761 233953

🔗 linkedin.com/in/rifatbinsiraj 📄 github.com/Rifat024 🌐 drutoai.com

📁 rifatbinsiraj.github.io/portfolio/

PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5+ years of experience building and scaling production-grade web apps, cloud-native serverless systems, and AI-powered platforms. Strong across the stack — React.js front-ends, Node.js / NestJS / Express.js and Java / Spring Boot back-ends, GraphQL, PostgreSQL / MongoDB, and AWS. Founder and lead engineer of DrutoAI, a live pay-as-you-go AI chat platform. Proven impact: 50% faster APIs, 60% fewer production bugs, and 95% test coverage.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Java, SQL, Bash / Shell Scripting
Frontend	React.js, Vite, Material UI, Tailwind CSS, Redux Toolkit, Apollo Client, HTML5, CSS3, REST & GraphQL
Backend	Node.js, NestJS, Express.js, Fastify, Java, Spring Boot, RESTful APIs, GraphQL, Microservices, Serverless, JWT & Cognito Auth, E-commerce Platform APIs (Shopify, WooCommerce, PrestaShop, SFCC)
Databases	PostgreSQL, MongoDB, MySQL, DynamoDB, Redis, Elasticsearch, Prisma, TypeORM, Flyway, Query Optimization
Cloud & AWS	Lambda, EC2, S3, API Gateway, Cognito, SNS, SES, DynamoDB, KMS, Secrets Manager, CloudWatch, Serverless Framework
DevOps	CI/CD, GitHub Actions, GitLab CI, Docker, Docker Compose, Apache Kafka, BullMQ, Firebase, Git, Linux / Unix
AI & LLM	Anthropic Claude, OpenAI GPT, Google Gemini, OpenRouter, Vercel AI SDK, MCP, Real-Time Streaming, Usage Metering & Billing
Testing	Jest, JUnit, Mockito, Mocha, Playwright, TDD, Capacitor, Payment Gateways (bKash, SurjoPay), Agile / Scrum

PROFESSIONAL EXPERIENCE

Software Engineer — Digital Bridge

Aug 2026 – Present

- ▶ Deliver features spanning 5+ independently deployed services — React front-end, GraphQL API and resolvers, transportation and refund — on an AWS Lambda returns platform of 80+ microservice repos.
- ▶ Integrated a pricing rules engine into operator return pricing with action-scoped evaluation, and added bounded, role-gated price overrides plus a persisted return-fee decision honoured by the refund service.
- ▶ Root-caused a silent production bug across 5 e-commerce integrations (Shopify, WooCommerce, PrestaShop, SFCC) — 6 fixes.
- ▶ Built a Playwright + TypeScript API/UI end-to-end suite and authored design docs to GitLab and Confluence.
- ▶ Run multi-repo release batches (dry-run merges, conflict resolution, per-service MRs) and triage incidents in CloudWatch.

Full Stack Engineer — Sense & Respond Software LLC

Nov 2022 – Jul 2026 · 3.7 yrs

- ▶ Architected and delivered 8+ production full-stack applications (React.js, NestJS, Express.js, MongoDB / PostgreSQL) serving 50,000+ active users.
- ▶ Designed RESTful and GraphQL APIs that cut average response latency by 40% via query optimization, indexing, and Redis caching.
- ▶ Built and maintained AWS serverless infrastructure (Lambda, API Gateway, S3, Cognito, SNS, DynamoDB, KMS), reducing cloud costs by 20%.
- ▶ Established CI/CD pipelines with automated Jest gates and GitHub Actions, reducing production bugs by 60% and enabling daily deployments.
- ▶ Led architecture decisions and mentored 3 junior engineers through code reviews, sprint planning, and pair programming.

Software Engineer — Ghuddy Limited

Jul 2021 – Nov 2022 · 1.4 yrs

- ▶ Built backend microservices and REST APIs for a high-traffic travel & hotel-booking platform using Java and Spring Boot on PostgreSQL with Flyway migrations.
- ▶ Implemented Elasticsearch-powered search and filtering for fast hotel, tour, and listing discovery across large datasets.
- ▶ Integrated AWS S3, SurjoPay payments, Firebase notifications, Apache Kafka events, and Spring Mail transactional emails.
- ▶ Cut average API response time 50% via JPA query tuning and PostgreSQL indexing; 95% test coverage with JUnit & Mockito.

FEATURED PROJECTS — DRUTOAI

Founder & Lead Engineer · DrutoAI Chat Platform · 2026 – Present · drutoai.com

- ▶ Built a full-stack pay-per-chat AI platform for Bangladesh with pluggable LLM providers (Claude, OpenAI, OpenRouter).
- ▶ NestJS + MongoDB backend with JWT auth, Swagger, usage metering, and credit billing; React + Vite + TypeScript + Tailwind front-end with real-time streaming and Bangla support.
- ▶ Integrated bKash payment gateway for chat-package purchases and shipped native iOS & Android apps via Capacitor.

ShopDesk — Multi-Tenant AI Sales Assistant for Online Stores Jul 2026 – Present

- ▶ Answers customers on Messenger, WhatsApp, Instagram & web chat in Bangla or English and takes orders in conversation.
- ▶ NestJS 11 / Fastify, MongoDB, Redis + BullMQ and a React + Vite SPA on Docker Compose; multi-provider tool calling with RAG.
- ▶ Exactly-once messaging via job-id dedupe, per-conversation locks and CAS claims; 61k lines under 184 test specs.

PROJECTS — SENSE & RESPOND SOFTWARE LLC

QA Studio — AI-Powered API Testing & QA Automation Platform

NestJS + Fastify microservices (MongoDB, BullMQ, JWT) and a React + Material UI + ReactFlow + Monaco front-end; AI test generation via Claude, OpenAI & Gemini (Vercel AI SDK + MCP), mock servers, and API-collection management on AWS.

ATA — API Governance & Documentation Platform

Node.js / Express + NestJS services (MongoDB, Redis, MCP) with a Spectral-based CLI for OpenAPI linting and governance, plus React micro-frontends for the doc portal, governance, and pricing.

Sniffer — Defect Tracking & QA Collaboration Tool

NestJS microservices (Anthropic AI, AWS SQS / KMS / SES) and React front-ends with CodeMirror editors and drag-and-drop, Redis caching, fully containerized with Docker Compose.

D2C Marketing & Campaign Platform

Serverless AWS Lambda microservices (DynamoDB, KMS, Cognito, SES, SNS, MJML) for campaign building, persona management, communications, and approval workflows.

Associate 360 — HR, Payroll & Finance Suite

Serverless microservices for company, timesheet, salary, payment, and finance management with DynamoDB streams, Memcached, and Pino logging.

PROJECTS — GHUDDY LIMITED

Travel & Hotel Booking Platform

Java / Spring Boot backend (Spring Data JPA, Spring Security) on PostgreSQL with Flyway, Elasticsearch search, Kafka, Firebase, AWS S3, SurjoPay payments, and Swagger-documented REST APIs.

api-collection-converter (Open Source)

Published npm package converting API collections across Postman, Swagger, OpenAPI, Insomnia, HAR, cURL, RAML, GraphQL, WSDL & AWS API Gateway. (npmjs.com/package/api-collection-converter)

KEY ACHIEVEMENTS

50% Faster APIs	Halved average server response time across services via query optimization, caching, and endpoint refactoring.
95% Test Coverage	Built unit & integration suites (Jest, JUnit, Mockito) in CI/CD, eliminating production regressions for 18+ consecutive months.
5 Products / 12 Months	Led a cross-functional team to design, build, and ship five full-stack products on time and to spec.
60% Fewer Bugs	Introduced automated testing gates and code-review standards that sharply reduced defects reaching production.
Founder of DrutoAI	Built and launched a live, monetized AI chat platform serving users across Bangladesh; published api-collection-converter on npm.

EDUCATION

B.Sc. in Computer Science & Engineering	2016 – 2021
Rajshahi University of Engineering & Technology (RUET)	