

BURHANUDDIN HALAI

Full Stack Engineer

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[Portfolio](#)

PROFESSIONAL SUMMARY

Full-stack engineer with a backend-first mindset — specializing in distributed systems, scalable SaaS architecture, and AI integration. Designs and owns production systems end-to-end: from domain modeling and async infrastructure to frontend delivery and cloud deployment. Brings structured engineering thinking to complex problems, with a track record of reducing infrastructure costs, accelerating delivery timelines, and building products that handle real scale.

KEY ACHIEVEMENTS

- **AI Infrastructure Cost Reduction** — Replaced a \$5k/month third-party AI dependency with a custom vector store and crawler solution, saving a client over \$60k annually.
- **PR Review Automation** — Built an AI agent orchestrator that cut pull request review time from 15–20 minutes to ~5 minutes per PR — eliminating review bottlenecks and surfacing critical flags before human review.
- **AI-Driven Product Delivery** — Delivered a full community SaaS platform (social feeds, groups, events, real-time messaging) originally scoped at 8 months in 5 months through AI-assisted development workflows.

SKILLS

TypeScript, JavaScript, Node.js, NestJS, Express.js, Next.js, React, React Query, Redux, Tailwind CSS

tRPC, REST APIs, WebSockets, Socket.io, PostgreSQL, MySQL, MongoDB, Prisma, Sequelize, Redis

BullMQ, JWT / RBAC, Next Auth / OAuth, OpenAI API, LLM Integration, RAG Pipelines, AWS S3, GitHub Actions, Docker

EXPERIENCE

Full Stack Engineer

Feb 2025 – Present

[Cygnis Media](#)

- Architected and led backend development for a production SaaS platform — designing modular NestJS systems with clean domain separation, role-based access control, and multi-layered security.
- Built an AI-powered PR review agent that reduced per-PR review time from 15–20 minutes to ~5 minutes, eliminating review queue bottlenecks across the engineering team.
- Designed async job infrastructure using BullMQ and Redis handling large-scale background processing — keeping real-time API performance unaffected under load.
- Integrated AI-powered product features via OpenAI API, delivering LLM-driven functionality that goes beyond surface-level chat implementations.
- Contributed full-stack across the codebase — owning backend systems while aligning Next.js frontend delivery with API contracts.

ReactJS Developer

Mar 2024 – Jan 2025

[Innovative Network](#)

- Built and maintained large-scale web application frontends using React and Next.js with a focus on performance, responsiveness, and production-grade UX.
- Delivered pixel-precise, accessible interfaces translating complex design requirements into production-ready code across multiple product surfaces.
- Later transitioned to a Full-stack developer owning both the backend and frontend.

Full Stack Developer

Jul 2023 – Feb 2024

Q-Solutions

- Sole developer and technical owner of an internal no-code website builder SaaS — handled R&D, architecture decisions, and full-stack implementation from scratch.
- Designed the core editor system, multi-tenant data model, and deployment pipeline independently — owning every technical decision across the product.
- Worked concurrently across additional project types including AI-integrated tools and consumer-facing web applications.

Blockchain Intern

Jan 2023 – Jun 2023

Q-Solutions

- Contributed to full-stack Web3 DApp development and gained hands-on experience building and testing smart contracts with Solidity and Foundry.

PROJECTS

ECOS

Express.js · PostgreSQL · BullMQ · OpenAI Assistants API · Python · AWS S3

Built a multi-tenant enterprise SaaS platform processing 10,000+ meters at 96 readings/day. Engineered a conversational AI interface using OpenAI Assistants API with function calling — non-technical users query complex energy data in plain English with strict per-tenant PostgreSQL isolation. 30+ BullMQ queue types handle data sync, report generation, and ML model training.

Seal Future Foundation

NestJS · MySQL · Redis · Bull · Socket.io · AWS S3 · TypeScript

Scalable NestJS backend for a community platform with 34+ data models covering posts, groups, events, jobs, surveys, admin dashboards and more. Redis-backed real-time messaging with Socket.IO, Bull queue for async workflows, JWT/RBAC auth, and AWS S3 media handling.

Perfume Plus International

Next.js 16 · TypeScript · Stripe · reCAPTCHA v3 · ISR

Server-rendered ecommerce storefront serving ~50,000 monthly users. Implemented encrypted sessions, WooCommerce APIs, and server-side Stripe payment processing with reCAPTCHA v3 bot protection, optimistic cart state with pessimistic rollback, security headers, dynamic sitemap, and SEO schema markup.

Builder.ai

Next.js 13 · tRPC · MongoDB · Craft.js · AWS S3 · GitHub Actions

Multi-tenant website builder with Craft.js drag-and-drop editor and LZUTF8 state compression (70–80% payload reduction). Automated deployment pipeline provisions S3 + CloudFront per publish via GitHub Actions with cache invalidation and custom domain support via CNAME.

VoiceFlow

NestJS · BullMQ · OpenAI · WebSockets · Redis

Production SaaS for AI-driven voice automation — inbound/outbound call handling, real-time flows kept responsive via async queue workers, Ultravox integration for agent voice, transcript processing pipeline, visual no-code flow builder for non-technical operators, and subscription-aware access patterns.

DMI Cards

Next.js · PostgreSQL · Stripe · CRM Integrations · PostHog

Digital business card SaaS with lead capture forms, analytics aggregation, subscription billing, plan-based feature gating, team licensing, QR-driven sharing, and CRM integrations. Full product ownership across UX, platform logic, billing, and third-party integration design.

EDUCATION

Bachelor of Computer Science (BSCS)

2019 – 2023

SZABIST

- Electives: Blockchain Technology & Contract Development, Ethical Hacking, Game Development, Cloud Computing.
- FYP: Property Price Evaluation — Data Science project using ML regression models.