

# Salman Sadik Siddiquee

Full Stack Developer

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## PROFESSIONAL SUMMARY

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Full-stack engineer (React/Next.js, Node, TypeScript) with ~3 years shipping production SaaS: an AI content platform with 100k+ users and 1M+ generated articles, a German medical-device manufacturer's device-lifecycle platform, and a solo-operated school system serving 1,000+ students. Built LLM features in production (RAG, streaming, structured output), billing integrations (~\$390K processed), and integration-heavy backends end to end.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, SQL.

**Frontend:** React 18/19, Next.js (App Router), Redux Toolkit, RTK Query, TanStack Query, Tailwind CSS, Material UI, Shadcn/ui.

**Backend:** Node.js, Express.js, REST & GraphQL APIs, Socket.io, Cron & queue pipelines (QStash, Cloud Tasks), JWT, OAuth 2.0, RBAC, rate limiting.

**AI / LLM:** OpenAI & Gemini APIs, RAG (vector search, embeddings, reranking), Structured outputs, SSE streaming.

**Databases:** MongoDB (Mongoose), PostgreSQL, MySQL (Prisma), Firestore.

**Integrations & Payments:** Stripe, PayPal, SSLCommerz, bKash/Nagad, Shopify & WordPress APIs, SMS gateways, ZKTeco biometric devices.

**Cloud, Ops & Testing:** Vercel, DigitalOcean (VPS, PM2), Firebase/GCP Functions, GitHub Actions CI, Sentry, Vitest, Jest, React Testing Library.

## WORK EXPERIENCE

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### Full Stack Developer

AlgoSoft Technologies Limited, Dhaka, Bangladesh

September 2025 - Present

- Led development (top contributor, 1,100+ commits) of a device-lifecycle platform (Node/Express, MongoDB, Next.js, Socket.io) for a German neurofeedback medical-device manufacturer, covering device registry, warranty administration, support ticketing, and EU-MDR-oriented quality management for 445 devices across 417 clinics, replacing spreadsheet- and email-based workflows with one auditable system spanning admin, customer, and reseller portals.
- Built the automated warranty-renewal pipeline (Node, QStash cron): four escalating EN/DE-localized reminder emails from 90 days to 1 day before expiry, deduplicated by a unique-indexed reminder log with a full delivery audit trail.
- Automated support-inbox triage (IMAP + OpenAI): a background poller that parses each inbound email into a structured ticket with urgency, problem type, and device serial automatically matched to the registry, plus AI-suggested agent assignment.
- Co-built a RAG support chatbot (Upstash Vector, BGE-M3 embeddings, cross-encoder reranking) with an SSE-streaming widget and clickable source citations.
- Implemented cross-system sync: a reseller service mirroring device movements from two independent deployments into the central registry, and a Shopify-to-platform event broker (Firebase Functions, Firestore, Cloud Tasks) converting paid orders into customer records, license issuance, and provisioning tasks, HMAC-verified, idempotent, and auto-retried, eliminating duplicate data entry.
- Shipped core modules of the in-house training LMS (Next.js 15, React 19, TypeScript): an AI quiz generator (structured-output GPT-4o-mini producing multiple-choice and matching questions with explanations) and enrollment/certificate flows with public certificate verification.

## Frontend React Developer

Affpilot, Dhaka, Bangladesh

October 2023 - September 2025

- Built and maintained the React component architecture of an AI auto-blogging SaaS (React 18, RTK Query, MUI, Tailwind) comprising 290 reusable components across 92 routed pages and 138 REST endpoints as top contributor (~920 of 1,860 commits).
- Built the generation workflows behind 1M+ articles (2B+ words, sustained 2,000+/day) for 100k+ users: 16 AI article generators with tone, point-of-view, and 20-language controls, plus bulk pipelines with per-account batch validation and failed-keyword recovery.
- Engineered the write-to-publish pipeline from a Tiptap editor to WordPress, Blogger, Medium, and Shopify, plus an API-key-secured webhook channel with site verification, category/author mapping, draft/publish states, and scheduling.
- Built checkout and billing flows with Stripe, SSLCommerz, PayPal, bKash/Nagad, a word-credit ledger, and coupon/lifetime-deal redemption, processing ~\$390K across 11,000+ transactions from 4,200+ paying customers, including an 8-tier AppSumo launch with 570+ redemptions.
- Founding frontend engineer (79% of commits) of Flippium, Affpilot's website-flipping marketplace (Next.js 14 App Router, GraphQL), including listing wizard, offer negotiation, buyer-seller-moderator messaging, and admin moderation, facilitating 100+ site sales at up to \$3K each.

## Freelance Software Developer

H.A.K Academy, Gazipur, Bangladesh

(Part-Time) 2025 - Present

- Designed, delivered, and operate a school management platform solo (React 18, Node/Express, MongoDB) for 1,000+ students across 12 grade levels, comprising 23 data models, ~137 REST endpoints, JWT auth with per-route role middleware for seven user roles, in production on Vercel and a DigitalOcean VPS (PM2 cluster).
- Integrated ZKTeco biometric devices via an adaptive, holiday-aware polling pipeline, with each fingerprint punch classified as entry/exit/absent against per-class schedule windows, guardians texted within seconds, handling 2,000-3,000 punches/day with cron reconciliation, health monitoring, and automatic recovery.
- Built the academic and messaging core: exam results with auto-computed GPA, merit positions, and a draft-to-publish workflow; student promotion with per-step rollback and audit trail; Bengali-typography PDF pipelines (admit cards, seat plans); and a rate-limited guardian-SMS service with retry/backoff, per-student deduplication, and an emergency kill switch.

## PROJECTS

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- **Brain Booming** — Live AI writing & utility suite (11 tools): Built with Next.js 15, React 19, Gemini (structured prompts), Tesseract.js OCR, Auth.js v5 (Google OAuth + magic links), MongoDB, per-user activity dashboards, Sentry monitoring, and Vitest testing.  
[🌐 brainboomingai.vercel.app](https://brainboomingai.vercel.app) • [🔗 github.com/salsadsid/brainboomingai](https://github.com/salsadsid/brainboomingai)
- **DSA Visualizer** — Open-source algorithm visualizer (19+): Developed a step/scrub playback engine with synchronized pseudocode highlighting, live pointer and operation-count tracking, and C++/Python/JavaScript/TypeScript code panels using Next.js 16 and Tailwind CSS 4.  
[🌐 visualizer-gold.vercel.app](https://visualizer-gold.vercel.app) • [🔗 github.com/salsadsid/visualizer](https://github.com/salsadsid/visualizer)

## EDUCATION

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### Bachelor of Science (BSc) | December 2022

Department of Geography and Environmental Science

Begum Rokeya University, Rangpur

## LANGUAGES

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Bangla (Native), English (Professional)