

MD ABDULLAH AL NOMAN

SOFTWARE ENGINEER

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SUMMARY

Lead Software Engineer with hands-on ownership of full-stack SaaS and automation systems. I design, build, and operate production platforms end-to-end—Next.js/NestJS, Node.js/Go, PostgreSQL, and modern DevOps on Linux (CI/CD, containers, observability). Comfortable leading squads, reviewing architecture, and shipping reliable software that scales to thousands of users. Strong DSA background and a pragmatic problem solver.

EXPERIENCE

Lead Software Engineer — Autoworx

Jan 2024 - Present

- Lead the planning, architecture, and delivery of a multi-tenant SaaS/CRM used by automation-industry clients (drag-and-drop pipeline, lead management, scheduling, real-time updates).
- Built and maintained production-grade services (Next.js frontend, NestJS/Node.js services) with PostgreSQL/Redis, Prisma, Socket.IO, BullMQ for queues, and Dockerized deployments.
- Set up CI/CD on Linux/Ubuntu VPS (GitHub Actions + container registry), adding automated tests, image builds, and zero-downtime deploys.
- Introduced tracing/logging/metrics, improved incident response playbooks, and reduced time-to-recover through health checks and structured logs.
- Mentored developers through code reviews, pairing, and design docs; coordinated delivery with product/design and stakeholders.
- Key tech:** Node.js, Next.js, NestJS, TypeScript, PostgreSQL, Redis, BullMQ, Prisma, Docker, Linux, GitHub Actions, AWS, Supabase, Self-Hosting.

SELECTED PROJECTS

Autoworx Platform (production)

Product Site

Next.js, NestJS, TypeScript, PostgreSQL, Redis, Prisma, BullMQ, Socket.IO, AWS, Docker, GitHub Actions, Linux.

- Drove a 40% increase in shop productivity, attributed to real-time tasking, automation, and streamlined workflows.
- Architected a multi-tenant SaaS with org/workspace isolation and RBAC at API + UI layers.
- Built real-time collaboration: in-app chat, live task/appointment updates, and drag-and-drop Kanban pipelines.
- Implemented internal automations for notifications, SLA reminders, status transitions, and webhooks.
- Shipped operations & finance modules: invoicing, inventory (SKU tracking, thresholds), and role-based approvals.
- Delivered analytics & reporting (materialized views, CSV/PDF export) for pipeline, revenue, and inventory health.

NestJS, BullMQ/Redis, PostgreSQL, Prisma, TypeScript, REST

- Built a rule engine where admins define triggers (events/schedules), conditions (filters), and actions (with optional delays); rules compile to jobs that auto-complete tasks and move items to target statuses.
- Automated operation workflows reduce manual outreach/triage effort by ~25–35% and tighten response SLAs.
- Powered marketing automations (timed email/SMS, suppression rules) that reduced marketing spend ~30% with no drop in conversion rate.

Bangla Reels — vertical short-video platform (web + mobile)

[Live Demo](#)

Next.js (web), React Native (iOS/Android), NestJs, TypeScript, PostgreSQL, Redis, AWS, Mux (ingest/transcode/HLS), Prisma, Hugging Face

- Built a TikTok-style vertical feed with infinite scroll, likes/comments, share, creator profiles; secure uploads via S3 presigned URLs with background processing.
- Super fast video streaming using Mux.
- Shipped AI auto-subtitles and Bangla↔English, Spanish, and French dub/sub using Hugging Face models with manual review and moderation workflow.
- Optimized Postgres schema + Redis caching to keep API responsive under bursty traffic.

SKILLS

Languages: TypeScript/JavaScript, Go, SQL, Python (scripting), C++, C#

Frontend: React, Next.js, Tailwind CSS, SSR/ISR

Backend: Node.js, NestJS, Express, REST/GraphQL, WebSockets, Background jobs, Caching

Databases: PostgreSQL, MySQL, Redis, Prisma/TypeORM, Migrations, Indexing & query tuning

DevOps: AWS, Linux (Ubuntu), Docker, Git/GitHub, GitHub Actions (CI/CD), Nginx/Caddy, VPS/Cloud, Coolify, Monitoring & logs

Practices: DSA, System design, Clean Architecture, SOLID, Code review, Agile delivery

EDUCATION

B.Sc. in Computer Science & Engineering (Major: Software Engineering)

2021 – 2025

American International University–Bangladesh (AIUB)

LANGUAGES

English (fluent) • Danish (learning)