

Md. Nazmul Hasan Sarkar

Lead Software Engineer | Node.js/TypeScript, Go, Python | AWS Serverless & SaaS Platforms
Open to full-time, contract, or remote roles | Dhaka, Bangladesh (GMT+6, UK business-hours overlap)
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PROFESSIONAL SUMMARY

Lead Software Engineer with 15 years of experience, mostly in backend development. I mainly work with Node.js and TypeScript (NestJS, Fastify). I have also built several highly scalable services in Go, and I use Python for AI work. Right now, I build multi-tenant SaaS products with AI features, such as product photo generation and size recommendation for online stores. I also work on AI-based SaaS products, many with Flutter mobile apps, for education, pharmacies, distributors, content creation, and teamwork tracking. At Banglalink, I led the move of a telecom platform with 40 million users from monoliths to microservices, and I have led and mentored engineering teams. I have worked with international teams and clients for over eight years, including remote teams in Australia and Canada. I am open to full-time, contract, and project roles and can start right away.

KEY RESULTS

- **40M users:** Moved Banglalink's telecom platform from monoliths to microservices.
- **75% faster releases:** Containerized 9 production apps, so releases took hours instead of days.
- **About 60% lower API latency** on SaaS backends through query and index tuning.
- **AI products shipped:** Built LLM, vision, and image generation features that run in production, with checks and fallbacks for when the AI gets it wrong.
- **8+ years with international teams** and clients, including remote contracts for Australia and Canada.

TECHNICAL SKILLS

Backend: Node.js, TypeScript, NestJS, Fastify, Express, Go, Python, Django, REST, GraphQL, microservices
AI: LLMs (OpenRouter, multi-model), vision, image generation, ranking, rule-based fallbacks
Cloud and DevOps: AWS (Lambda, API Gateway, SQS, DynamoDB), GCP, DigitalOcean, Docker, Kubernetes, Helm, CI/CD, RabbitMQ
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Prisma, TypeORM
Frontend and Mobile: React, Next.js, Angular, Tailwind CSS, Flutter
Platforms: Multi-tenant SaaS, Shopify apps, Stripe, OAuth2, JWT, IAM

PROFESSIONAL EXPERIENCE

Lead Software Engineer, Red Circle Digital (Remote Contract, project-based)
April 2026 - Present

- Built AI Photoshoot, a product photo SaaS for online stores. Each organization's data is kept separate, and users buy credits to create photoshoots, retouched images, recolors, and short videos. Stack: TypeScript, Fastify, PostgreSQL, Prisma, Redis, AWS SQS.
- Built two Shopify versions: a standalone app and a small embedded admin. Merchants pick a product, generate images, and send them back to their store.
- Built MyFitSize, a Shopify size quiz app with an admin panel, a block on the product page, and a quiz on the storefront.
- The size engine estimates body measurements, matches them to the store's size chart, and ranks the best variants. An AI model reads size chart images, and a rule-based check takes over when it gets pet sizes wrong.
- Took both apps from design to production, including the database, Docker, Helm, and CI/CD.

Lead Software Engineer, Mind Orbital Ltd. (Remote Contract)
December 2025 - March 2026

- Built two products, Hazira and Teamrail, with NestJS and Angular, from system design to production.
- Set up Kubernetes on DigitalOcean with Docker and Helm, so every deployment works the same way.
- Led the backend for Stripe and SSLCommerz payments, and for background jobs on AWS SQS, Lambda, and Redis.

Principal Software Engineer, Tech Lead, Astha.IT (augmented at Banglalink, Dhaka)
April 2023 - September 2025

- Led the move from old monolith systems to microservices in NestJS and Go, serving 40 million users.
- Designed BL-IAM, the login and access system for a multi-tenant telecom platform (JWT, OAuth2, API Gateway).
- Built network login, so users on a Banglalink SIM are signed in automatically. The gateway checks that the request comes from the mobile network and sends the phone number (MSISDN) to IAM, which returns a short-lived JWT for that tenant.
- Wrote a Go service that checks JWT tokens behind Nginx for other services. It handles millions of requests in production.

- Built the bonus service that sends rewards to a large number of customers (NestJS, MySQL, RabbitMQ).
- Moved 9 production apps to Docker and Kubernetes, which cut deployment time by 75%. Also added Redis caching and RabbitMQ messaging.
- Mentored 8+ engineers and set up regular code reviews and test-driven development (TDD).

Senior Full-Stack Engineer, Apartments and Developments Ltd. (Australia, Remote Contract)
September 2022 - February 2023
- Delivered 3 SaaS products under the DevSuite name (React, TypeScript, PostgreSQL).
- Cut API latency by about 60% by tuning backend queries and indexes.
- Managed the cloud setup on GCP and Kubernetes, including Infrastructure as Code and CI/CD.

Senior Full-Stack Engineer, Bitstrapped Inc. (Canada, Remote Contract, concurrent with Strativ AB)
January 2022 - August 2022
- Built analytics and data pipelines for the Canpath project (Vue, Python, PostgreSQL).
- Made data loading faster for large datasets and deployed the services on GCP.

Senior Software Engineer, Strativ AB Ltd. (Full-time, Mirpur DOHS, Dhaka)
June 2021 - May 2022
- Led a 5-person team across the web and mobile apps for AllezPadel, a padel game and tournament platform, and built the backend from scratch (NestJS, GraphQL, MongoDB).
- Added live game updates with Socket.io and used AWS DocumentDB for the database.

SELISE Digital Platforms (Full-time, on-site, Dhanmondi, Dhaka)
August 2018 - May 2021
Lead Software Engineer (MyCareerGate)
August 2020 - May 2021
- Led the MyCareerGate team, building a talent matching platform with Angular, TypeScript, and microservices.

Senior Software Engineer
August 2018 - July 2020
- Built the audio and video player for JamAHook, a music platform for producers.
- Designed reusable Angular component libraries.
- Built various features for AddExpert, a recruitment and career-services platform, with TypeScript, Angular 8, GraphQL, Node.js, .NET Core microservices, MongoDB, and Azure.

Senior Software Engineer, ECHO Sourcing (Pvt) Ltd. (Full-time, on-site, Uttara, Dhaka)
August 2017 - June 2018
- Built a time tracker app and an A/B testing analytics tool (Express, MongoDB).
- Integrated Optimizely and Adobe Target to analyze conversion rates.

Web Application Developer, ICT Euro Ltd. (Banani, Dhaka)
January 2015 - July 2017
- Collected requirements and designed databases for client projects in PHP and CodeIgniter.
- Built custom Magento and OpenCart modules for overseas clients, including a new pricing calculation with shipping costs.
- Built shipping management software that tracks stock, QA, and packing lists by barcode (CodeIgniter, MySQL).

Web Application Developer, Impel IT Solutions (Banani, Dhaka)
July 2014 - December 2014
- Built a large-scale hosted e-commerce solution with Python, Django, and Django REST Framework.
- Built the AngularJS frontend, including the UI, services, and directives.

Senior Software Engineer, KaritKarma Ltd. (Banglamotor, Dhaka)
July 2013 - May 2014
- Worked on Bizness Resource Planner (BizRP) and the KaritKarma framework with Python, Flask, and RESTful APIs.

Web Developer, Gonona Technologies Ltd. (Gulshan, Dhaka)
September 2012 - June 2013
- Built Joomla templates from PSD layouts, plus Joomla components, modules, plugins, and VirtueMart customizations.
- Developed WordPress themes and plugins, and the CVTransformer web app on CodeIgniter.

Web Programmer, The RS Software Ltd. (Rampura, Dhaka)
January 2011 - August 2012
- Built Core PHP and MySQL sites, WordPress themes and plugins, and Joomla templates and extensions.
- Customized VirtueMart and OpenCart stores and built apps with CodeIgniter.

RECENT PRODUCT WORK

SaaS products for local and international businesses, with web apps and Flutter mobile apps | September 2025 - Present

- **Mavira - AI content studio:** Built an AI studio where users buy credits to make product photos, documents, and reports. It picks the best AI model for each task (Claude, GPT, Gemini, Flux, Veo), checks each result, and accepts bKash, Nagad, and card payments.
- **RxDokan - Pharmacy operations platform:** Built a system where staff type a medicine name and see the exact shelf and box, mapped from shelf photos. It also handles stock across branches, expiry dates, and alerts.
- **Sorboraho - Distributor ledger app:** Replaced the daily Excel files with one Bangla ledger. Staff take a photo of a slip or speak in Bangla, and AI creates the rows for a person to approve. Field staff use an offline Flutter app.
- **Burup - Project management platform:** Building an AI-native work tracking tool for software teams.
- **TutsPaper - EdTech platform:** Designed an AI-based EdTech SaaS on AWS serverless (API Gateway, Lambda, SQS, DynamoDB). It is event-driven and still in development.

EDUCATION

- B.Sc. in Electrical and Electronic Engineering | Presidency University, Dhaka | 2005 - 2009
- HSC (Science) | National Bank Public College, Dhaka | 2001 - 2003
- SSC (Science) | Civil Aviation High School, Dhaka | 1999 - 2001

CERTIFICATIONS AND ADDITIONAL

- AI Engineering Bootcamp (Batch 10) | Ostad | June 2026 - Present
- Software Architecture Foundations | LinkedIn | 2025
- DevOps (Docker to Kubernetes) | Tecognize Training | 2020
- MCTS 70-515: ASP.NET 4 Web Development | CEC, AIUB | 2011
- **Languages:** English (professional working), Bengali (native)
- **Remote work:** Remote contracts since 2022, and 8+ years working with international teams and clients
- **Availability:** Full-time, contract, or project work. I can start right away and overlap with UK business hours.