

Shahriar Hossain

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Full-Stack Software Engineer

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Backend, AI/LLM, SaaS & Product Delivery

Dhaka, Bangladesh

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Professional Profile

Versatile software engineer with 3+ years of experience delivering backend services, full-stack SaaS products, AI/LLM and retrieval workflows, IoT dashboards, and cross-platform application backends. Experienced in working directly with clients, users, founders, and product stakeholders to translate business needs into specifications, prototypes, APIs, data models, integrations, deployment plans, and stable production software. Combines technical execution with product thinking, clear communication, rapid adaptation, and end-to-end ownership.

Selected impact: Reduced manual operations by 40%, reduced runtime failures by 25%, improved mobile usability by 30%, shortened new-page delivery by 20%, and helped secure BDT 10 lakh in seed funding.

Core Expertise

Languages	JavaScript ES6+, TypeScript, Python, SQL, PHP, Java, C/C++
Frontend & Mobile	React, Next.js, HTML5, CSS3, Bootstrap, Tailwind CSS, Flutter integration
Backend & APIs	Node.js, Express.js, RESTful APIs, CRUD, asynchronous programming, JWT, RBAC, validation, webhooks, MQTT
Data & AI	PostgreSQL, MySQL, MongoDB, Redis, schema design, indexing, query optimization, LLM APIs, RAG, document retrieval, workflow automation
Cloud & Delivery	AWS EC2, Linux/VPS, Nginx, PM2, Docker, Vercel, Git/GitHub, CI/CD fundamentals, HTTPS, release support
Product Delivery	Requirement gathering, SRS, WBS, process flows, wireframes, prototypes, stakeholder demonstrations, Agile collaboration
Working Knowledge	NestJS, Django/DRF, Firebase, Figma, Adobe XD, Jira, Trello, Confluence, Miro

Professional Experience

Backend Engineer | SM Technology **Feb 2026 - Present**
Dhaka, Bangladesh

- Design scalable backend services and secure REST APIs using Node.js, Express.js, JavaScript/TypeScript, MongoDB, and PostgreSQL.
- Translate client and product requirements into API contracts, data models, prototypes, integration plans, and executable delivery roadmaps.
- Implement JWT/RBAC security, validation, structured error handling, third-party integrations, and AI features using LLM APIs and RAG-based retrieval.
- Design backend architecture for web and Flutter applications; support Docker/Linux deployments, release validation, performance optimization, and production issue resolution.

Technology: Node.js, Express.js, TypeScript, MongoDB, PostgreSQL, Redis, JWT, RAG, Flutter, Docker, Linux, Git

xFishery Dhaka, Bangladesh

Product Engineer **Aug 2025 - Feb 2026**

- Led product-to-engineering delivery for an IoT-enabled aquaculture SaaS platform, gathering requirements directly from business stakeholders, clients, and users.
- Built REST APIs, JWT/RBAC controls, live monitoring and reporting workflows, and MQTT/MongoDB integrations, reducing manual operational steps by 40% and runtime failures by 25%.
- Built the core SaaS platform and supporting software that structured operations and strengthened the company's technical foundation and funding case.

Junior Software Engineer **Feb 2025 - Jul 2025**

- Developed responsive dashboards and real-time sensor integrations, improving mobile usability by 30% and reducing new-page development time by 20%.
- Integrated frontend interfaces with backend services and IoT data while supporting testing, feature refinement, and production reliability.

Technology: Node.js, Express.js, JavaScript/TypeScript, MongoDB, MQTT, PHP/MySQL, REST APIs, AWS EC2, Nginx, PM2, Tailwind CSS

- Co-founded and led product and technical execution of an AI-powered legal SaaS MVP for document-based guidance, knowledge retrieval, chatbot interaction, and workflow support.
- Developed authentication, backend logic, MongoDB integration, LLM responses, retrieval workflows, prototypes, and demonstration-ready product experiences.
- Produced SRS, WBS, architecture workflows, wireframes, and implementation plans; coordinated an eight-member team across product, UI/UX, engineering, testing, and demonstrations.
- Helped secure BDT 10 lakh in seed funding through product delivery, technical demonstrations, and pitching at DIU Accelerator Cup 2023.

Technology: JavaScript, MongoDB, LLM Integration, RAG/Knowledge Retrieval, Authentication, Figma, Adobe XD

Selected Projects

MediTrack - Pharmacy Management SaaS

MERN | JWT/RBAC | AWS EC2 | Nginx

- Built inventory, prescriptions, billing, reporting, analytics, and role-based workflows for Admin, Pharmacy, and Staff users.
- Implemented secure authentication and deployed the application on AWS EC2 with Nginx, HTTPS, environment configuration, and production-style support.

DIU Routine Assist - Institutional Scheduling Platform

Next.js | React | TypeScript | Tailwind CSS

- Developed class-routine and classroom-availability workflows with reusable components, responsive interfaces, structured data handling, and RBAC.
- Delivered a solution approved after pilot testing by Daffodil International University for institutional deployment.

Admission Portal - Multi-Role Admission and Result System

Next.js | Redis | Firebase | CAPTCHA

- Built Applicant, Reviewer, and Admin workflows for submission, verification, review, access control, and result publication.
- Used Redis for OTP/session data and integrated CAPTCHA and Firebase verification to improve security and prevent abuse.

Achievements & Recognition

- **Champion, DIU Accelerator Cup 2023:** Led an eight-member Lex.AI team through product development and pitching, helping secure BDT 10 lakh in seed funding.
- **Patent Application, Lex.AI - June 2024:** Applied for intellectual-property protection around structured legal-data generation and automated workflows.
- **Best Athlete Award - 2019:** Won the 100-meter sprint and 4x100-meter relay; served as football team captain and helped lead the team to an inter-cantonment tournament runner-up finish.

Leadership & Community

Vice President of Partnerships | DIU Accelerator Club

Jun 2023 - 2025

Startup partnerships, event coordination, and community engagement

- Supported partnerships, startup engagement, resource coordination, and promotion for entrepreneurship activities, including an Accelerator Cup involving more than 3,000 participants.

Founder | DIU CSE Football Association

2024

Student sports community and tournament operations

- Founded a student-led football community and coordinated tournaments, registrations, scheduling, team management, and digital promotion.

Organizer | DIU Inter-Department Futsal Tournament

Nov 2023

Event logistics, team coordination, and promotion

Education & Additional Experience

B.Sc. in Computer Science and Engineering | Daffodil International University

Graduated 2025

Dhaka, Bangladesh | CGPA: 3.23/4.00

Co-Founder | Odezha

Jun 2022 - Jul 2022

Early-stage entrepreneurial experience

Tools, Languages & Interests

Engineering Tools: Postman, VS Code, GitHub, NPM, Composer, Firebase, Figma, Adobe XD, Canva.

AI-Assisted Tools: Cursor, GitHub Copilot, ChatGPT, Claude Code, and OpenAI/Codex tools with manual technical review.

Languages: Bengali - Native; English - Professional working proficiency.

Interests: Football, futsal, athletics, PC building, technology news, reading, startup products, SaaS systems, and continuous learning.