

MD SHAFIKUL RAHMAN

Associate Software Engineer

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Skills

Core: React.js, Next.js, JavaScript, TypeScript, Node.js, REST APIs, WebSockets

AI / LLM Systems: RAG pipelines, Embeddings, Vector Search

Databases: MongoDB, PostgreSQL, Redis, Qdrant, pgvector

Tools: Git, GitHub, Bitbucket, Jira, Confluence

Experience

Associate Software Engineer

June 2025 – Present

Shellbeehaken Ltd

- Built an AI voice agent for farmers using RAG pipelines with context-aware retrieval and response generation in real-time systems.
- Designed and implemented backend services for production system (Kriyakarak), contributing to both API development and frontend integration.
- Integrated embeddings and vector databases (Qdrant / pgvector) to improve semantic search accuracy and response relevance.
- Learned performance optimization using caching, rate limiting, and multi-instance synchronization strategies for scalability.
- Participated in production deployments, debugging, and iterative feature releases in a fast-paced engineering environment.
- Collaborated with cross-functional teams to design and ship end-to-end features from requirement to production.

Intern Software Engineer

December 2024 – May 2025

Shellbeehaken Ltd

- Worked on full-stack web development using React.js, Next.js, and Node.js in production environments.
- Built multiple internal tools and contributed to live production features.
- Developed a Twitter-like application with authentication, SSR, and real-time updates.
- Gained experience in Git workflows, REST API design, and agile development practices.

Education

B.Sc. in Software Engineering

2020 – 2025

Shahjalal University of Science and Technology, Sylhet

CGPA: 3.57 / 4.00

Projects

Bloom Filter-Based Username Check System | [source code](#)

Oct 2025

- Built a Bloom Filter-based system for fast username availability checks with controlled false positives.
- Reduced database load using probabilistic data structures and efficient bit-array hashing.

Twitter Clone | [source code](#)

Feb 2025 – Mar 2025

- Built a full-stack social platform using Next.js, MongoDB, and WebSockets with real-time features.
- Implemented authentication, posting system, social graph (follow/like/retweet), and notifications.

Certifications

- AWS AI Practitioner Challenge – Udacity (2026)

Certificate

Problem Solving

- Solved 600+ algorithmic problems across Codeforces, CodeChef, LeetCode, and VJudge.
- **Codeforces:** Pupil (Max rating 1213)
- **CodeChef:** 3* (Max rating 1620)