

Tarikul Islam

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PROFESSIONAL SUMMARY

Full-stack Software Engineer with 4+ years of experience specializing in Node.js, TypeScript, and React. Experienced in designing microservices and event-driven systems that handle high-volume data and concurrent workloads. Proven ability to optimize performance, reduce latency, and build scalable systems supporting thousands of daily users. Passionate about building reliable, production-grade applications at scale.

TECHNICAL SKILLS

- **Backend:** Node.js, TypeScript, NestJS, Express.js, REST APIs, Microservices, Go.
- **Frontend:** React.js (Advanced), Next.js, Svelte, SvelteKit, Redux, Tailwind CSS
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis
- **Architecture:** Distributed Systems, Event-Driven Architecture, RBAC, System Design
- **Messaging & Communication:** RabbitMQ, gRPC, WebSockets, Twilio
- **DevOps:** Docker, CI/CD, Jenkins, GitHub Actions, AWS
- **Tools:** Git, Linux, Jest

PROFESSIONAL EXPERIENCE

CyberSquadInc

Backend Software Engineer

Mar 2025 – Present

Bangladesh

- Architected scalable microservices using NestJS and gRPC, supporting distributed systems.
- Designed event-driven workflows using RabbitMQ for asynchronous processing and improved system scalability.
- Built high-performance APIs handling high concurrent workloads with optimized query performance and low latency
- Cut API response time by **60%** through advanced SQL query tuning and indexing.
- Increased system throughput by **40%** by consolidating multi-query operations.
- Established RBAC for multi-tenant architecture supporting Students, Agencies, and Universities.
- Optimized database queries for large datasets, ensuring efficient performance at scale.
- Automated CI/CD pipelines and containerized deployments using Docker.

GIZAN TECH

Software Engineer

Aug 2024 – Mar 2025

Bangladesh

- Built scalable full-stack applications using React, Next.js, and Node.js, improving user experience and frontend performance.
- Lowered backend latency by **30%** via efficient query restructuring.
- Crafted REST APIs supporting scalable application architecture.
- Managed AWS deployments and CI/CD workflows.

FLUX IT

Software Engineer (Remote)

Jan 2023 – Jul 2024

Bangladesh

- Built production-grade backend services using Node.js and TypeScript, supporting multiple services and improving system reliability.
- Strengthened system reliability through CI/CD-driven deployment workflows.
- Designed REST APIs and optimized database interactions.

EDGE BU CSE Digital Skills Training (BCC, ICT Division)

Trainer (Full-time)

Sep 2021 – Dec 2022

Bangladesh

- Selected as a trainer for a national-level government program under BCC (ICT Division).
- Trained 50+ students on React.js, modern JavaScript, and real-world application development.
- Mentored participants in building scalable projects and improving problem-solving skills.

PROBLEM SOLVING

- Solved 800+ algorithmic problems across LeetCode and Codeforces.
- Strong understanding of data structures, algorithms, and problem-solving patterns.
- Profiles:
 - LeetCode: leetcode.com/u/Tarikul001
 - Codeforces: codeforces.com/profile/TarikulIslam01

PROJECTS

ApplyGoal International Student Application CRM

Apr 2025 – Present

Cyber Squad Inc.

- Architected a microservices platform automating international student admissions and visa workflows.
- Built event-driven architecture using RabbitMQ, improving system scalability and asynchronous processing.
- Reduced manual document processing by **90%** through automation of Admission Portfolio workflows.
- Streamlined document generation pipeline, cutting processing time from minutes to seconds.
- Boosted system scalability to support high concurrent user traffic.
- Lowered database load by **50%** through efficient query restructuring.
- Deployed services using Docker and Traefik with monitoring via Prometheus and Grafana.
- **Live:** <https://applygoal.com/>

Reqfast Cyber Intelligence SaaS Platform

Mar 2023 – Sep 2023

FLUX IT

- Developed backend services for a SaaS platform managing cyber intelligence workflows.
- Structured scalable REST APIs for workflow mapping and security data processing.
- Refined API performance and minimized response latency across core services.
- **Live:** <https://reqfast.com>

Bar Management System

Oct 2022 – Dec 2022

PNC Soft Tech

- Built a full-stack role-based management system using React, Node.js, and MongoDB.
- Established secure authentication and authorization using JWT with multi-role access control.
- Built scalable REST APIs to manage users, committees, and workflows with secure data handling.
- Developed an admin dashboard enabling centralized control over user management and system operations.
- Ensured system reliability and maintainability through modular backend design and clean API architecture.
- **Live Project:** dhakabarassociation.com

Flux Gaming Platform Real-Time Social System

2023 – 2024

FLUX IT

- Integrated real-time social features that include chat, friend requests, and notifications.
- Enabled low-latency real-time chat and friend management workflows (request, accept, reject).
- Developed serverless backend services using AWS (DynamoDB, EC2, Serverless Framework).
- Integrated Amazon Cognito for secure authentication and token-based authorization (access/refresh tokens).
- **Live Project:** fluxit.games

EDUCATION

University of Barishal

2019 – 2023

Bachelor of Science in Computer Science and Engineering