

Abul Kalam Azad

Backend-Focused Full Stack Engineer – Dhaka, Bangladesh

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PROFESSIONAL SUMMARY

Backend-focused Full Stack Engineer with over 5 years of experience designing and scaling SaaS and enterprise platforms using **Node.js (NestJS, Express.js)**, **PHP (Laravel, Symfony)**, and modern DevOps on AWS. Expert in building modular APIs, event-driven services, and optimized databases (**MySQL, PostgreSQL, MongoDB**) with Docker and CI/CD automation. Strong focus on backend architecture, system design, and cloud scalability for healthcare, e-commerce, and education platforms. Passionate about developing secure, high-performance healthcare systems that enhance patient experience through technology.

TECHNICAL SKILLS

Languages: JavaScript (Node.js, TypeScript), PHP, SQL

Frameworks & Libraries: NestJS, Express.js, Laravel, Symfony, React.js, Next.js

Architectures: Modular Monolith, Microservices, Event-Driven, RESTful APIs, Caching (Redis)

Databases: MySQL, PostgreSQL, MongoDB

DevOps & Cloud: AWS (Lambda, SQS, EventBridge, EC2, S3), Docker, Nginx, CI/CD (GitHub Actions, GitLab CI)

Tools & Practices: Git, Jira, Agile/Scrum, SOLID, Clean Code, Design Patterns

PROFESSIONAL EXPERIENCE

Arogga.com — Senior Software Engineer (Apr 2023 – Present)

Architected modular backend services using **NestJS & Node.js**, powering real-time e-commerce operations.

Optimized AWS infrastructure (**Lambda, SQS, EventBridge**) to reduce monthly cloud costs by 30% through smart scaling, workload automation, and efficient resource allocation.

Implemented event-driven monitoring with AWS EventBridge & CloudWatch for proactive alerting and performance visibility.

Enhanced database queries and caching (**Redis**), improving response time by 45% and ensuring stable scalability during high-traffic periods.

Developed **CI/CD pipelines** and Dockerized microservices, cutting deployment errors by 90% and reducing release cycles from weeks to days.

Mentored junior engineers on clean architecture and backend best practices.

■ **Employee of the Quarter Award – Q3 2025** for outstanding performance in backend optimization, cost efficiency, and engineering leadership.

Microxen.com — Software Engineer (Aug 2022 – Apr 2023)

Built and maintained **MERN stack applications**, scaling concurrency 3x without additional cost.

Integrated React front-ends with **Node.js APIs** for real-time data exchange and improved UX.

Automated CI/CD workflows (Docker + GitLab), reducing manual deployment time by 90%.

Optimized API structure and queries with Redis caching, lowering server load by 25%.

Urban IT Solution — Software Engineer (Mar 2020 – Jul 2022)

Developed a multi-tenant school management system using Laravel + React.
Built secure HRM and Payroll platforms with RBAC and reporting modules.
Improved database indexing and caching for 35% faster query performance.

SELECTED PROJECTS

EzyCourse-Style LMS (SaaS Prototype): Event-driven architecture with Node.js + AWS Lambda/SQS.

Arogga E-Commerce Platform: Modular backend with NestJS and Redis for high performance.

School Management System: Multi-tenant architecture built with Laravel and shared infrastructure.

HRM Platform: Automated payroll with RBAC security and Redis-based performance reporting.

EDUCATION

B.Sc. in Computer Science & Engineering — Daffodil International University, Bangladesh (2020)

SOFT SKILLS

System Design • Backend Architecture • Team Mentoring • Performance Tuning • Agile Delivery • Cross-Team Collaboration