Md Asaduzzaman
Senior Software Engineer

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Professional Summary

Backend-focused Software Engineer with **6+ years of professional experience**, including **3+ years building production systems with NestJS and TypeScript**. Strong background in designing **scalable REST APIs**, implementing **JWT-based authentication**, and optimizing **PostgreSQL/MySQL databases** through schema design, indexing, and query tuning. Experienced in **PHP/Laravel**, cloud-ready deployments, and CI/CD workflows. Proven ability to own backend features end-to-end, collaborate across teams, and deliver secure, high-performance SaaS solutions for global users.

Key Skills

Backend: JavaScript, TypeScript, NestJS, NodeJS, PHP, Laravel, REST Api, Modular Architecture, Microservice
Database: MySQL, PostgreSQL, Schema design & migrations, Complex SQL queries, joins, indexing
DevOps: Git, Github, VPS setup (Linux), Nginx, Docker, CI/CD (Github Actions), AWS, Monitoring & logging
Methodologies: Agile, Scrum, Debugging & root-cause analysis, Code reviews & documentation

Projects

Snowgum | Full-Stack E-Commerce Application
ReactJS, NodeJS, NestJS, PostgreSQL, VPS (Ubuntu), CI/CD, Github Actions, Nginx

- Designed full system architecture: frontend UI, backend services, database schema, and DevOps pipelines.
- Implemented secure authentication, automated payments (Stripe), inventory management, and user flows.
- Deployed Dockerized builds using GitHub Actions + Nginx, achieving 99.9% uptime.
- Improved performance with caching and query tuning.
- (In progress) Developing mobile apps with Ionic + React.

Eduva | Learning Management & Tutoring Platform
ReactJS, NodeJS (NestJS), PostgreSQL, Docker, VPS, GitHub Actions, CI/CD, Nginx, JWT Auth, TailwindCSS

- Architect multi-role platform (Students, Tutors, Franchises, Admins).
- Built complete lifecycle: frontend, backend APIs, database, user authentication, DevOps pipelines.
- Implemented Dockerized deployments with Nginx and automated CI/CD.
- Achieved fast load times through optimized queries, caching, and consistent performance tuning.

Bequent | HR Automation Platform
React.js, NodeJS (NestJS), PostgreSQL, Docker, VPS, GitHub Actions, CI/CD, Nginx, JWT Auth

- Developed core modules (Attendance, Payroll, Leave, Expense) for Bequent, a unified HR automation platform handling payroll, time tracking, and business workflows.
- Built attendance sync (bio-metric/web/mobile) and automated its integration with payroll, reducing manual reconciliation efforts.
- Designed and implemented leave management self-service portal, with hierarchical approvals and real-time capacity visibility.
- Engineered expense submission and reimbursement workflow, enabling receipt upload, categorization, and automated approval.
- Contributed to provident fund module, tracking employer/employee contributions and generating regulatory reports.

Experience
Senior Software Engineer | Datafluent Analytics Ltd
Mar 2023 – Present | Dhaka

- Enterprise SaaS platforms with global users requiring scalable backend APIs, secure authentication, optimized SQL performance, and timezone-aware data handling.
- Designed and developed backend services using **NestJS and TypeScript**, implementing modular REST APIs, JWT-based authentication, role/permission authorization, database schema design, migrations, indexing, and complex SQL query optimization on PostgreSQL/MySQL; handled production debugging and root-cause analysis.
- Improved backend performance and reliability under concurrent load, reduced production issues, and enabled faster delivery of scalable SaaS features.
- Advanced expertise in **NestJS architecture, SQL optimization, secure API design, and production-grade backend ownership**.

Software Developer (Freelance) | Upwork & Fiverr
Jan 2022 – Feb 2023 | Remote

- Multiple client projects requiring rapid delivery of secure backend systems for web and mobile applications.
- Built **RESTful APIs using NestJS and NodeJS**, implemented authentication, authorization, payments, and RBAC; developed backend services using **PHP/Laravel** for CRUD, reporting, and admin workflows; designed MySQL/PostgreSQL schemas, migrations, indexing, and CI/CD with Docker.
- Delivered multiple production-ready backend systems with **100% client satisfaction**, stable releases, and repeat clients.
- Strengthened ability to independently architect backend systems and balance performance, security, and delivery speed.

Software Developer | CodeCubeBD Ltd
May 2020 – Dec 2021 | Dhaka

- School Management System requiring reliable backend services for students, teachers, and administrators across web and mobile platforms.
- Developed backend APIs using **NodeJS and PHP/Laravel**, implemented authentication, payments, reporting, and role-based access; designed relational database schemas, wrote optimized SQL queries, and introduced indexing strategies; collaborated with frontend and mobile teams on API contracts.
- System adopted by **10+ institutions**, reducing onboarding time by ~50% and improving backend stability for concurrent users.
- Built strong fundamentals in **backend system design, SQL performance tuning, and secure transactional APIs**.

Frontend & Rich Media Developer | Eskimi Ltd
Dec 2019 – Apr 2020 | Dhaka

- High-performance advertising platforms requiring efficient frontend rendering and reliable backend data delivery.
- Developed Angular-based UI components while also contributing to **REST API development using PHP/Laravel**, supporting data endpoints, payload optimization, and frontend-backend integration for performance-critical features.
- Improved application responsiveness and contributed to a **15% increase in ad engagement** across multiple campaigns.
- Gained practical understanding of how **backend API performance directly impacts frontend scalability and user experience**.

Junior Software Developer | Syftet Ltd
Jan 2017 – Nov 2019 | Dhaka

- Internal ERP and mobile applications for enterprise workflow automation.
- Built and deployed backend-integrated applications using **JavaScript, NodeJS, and PHP**, supporting REST APIs, authentication modules, database operations, and Ionic-based mobile apps.
- Contributed to **8+ production applications** with stable backend integrations and growing user adoption.
- Established a strong foundation in **backend development, APIs, databases, and production support workflows**.

Education
B.Sc in Mathematics, 2015, Khulna University, Bangladesh

Thesis: Comparative Studies and Predicting on Human Population in Bangladesh. | Link
Book: Applications of Ordinary Differential Equations to Biological system. | Link | Publication