

MD. TOKEY ZAWAD

FULL-STACK DEVELOPER | REACT - NODE.JS - MONGODB - MYSQL

Dhaka, Bangladesh | Open to remote roles worldwide (location eligibility applies)

jawad.taj1998@gmail.com | +880 1966 599 936 | <https://jawad-taj-portfolio.pages.dev>

PROFESSIONAL SUMMARY

Full-stack JavaScript developer with about 1.5 years of professional experience building diagnostic and ERP software. Worked across React interfaces, Node.js APIs, MongoDB and MySQL data models, and production workflows. Improved patient registration speed, search performance, report delivery, and accounting/inventory processes. Also supported high-volume systems handling millions of requests. B.Sc. in Computer Science and Engineering from AIUB.

EXPERIENCE

Independent Projects and Study | Self-directed - Nov 2024-Present

- Continued independent project work and technical study in full-stack development.

Full-Stack Developer | Dhaka Apps Ltd. - May 2024-Nov 2024

Al-Hamad Medical Center Limited Diagnostic Software

- Delivered a diagnostic management platform supporting 200+ patient registrations per day across Pathology, Radiology, and Physical Examination.
- Consolidated registration and sample collection from six screens into one role-aware workflow, reducing data-entry time by 50%; staff reported fewer input errors.
- Built configurable test and package management; the center launched 15+ new packages in its first three months without developer-led changes.
- Automated configurable PDF report generation in under two seconds and added SMS delivery, reducing patient phone inquiries by 60%.
- Optimized MongoDB aggregation pipelines, making test-result retrieval three times faster than the initial implementation.

Full-Stack Developer | Syscon Solution Ltd. - May 2023-Apr 2024

Eureka Diagnostic & Medical Center Software and ERP (Accounting & Product Management)

- Reduced diagnostic search response times from 8-12 seconds to under 500 ms by profiling endpoints, resolving N+1 queries, improving filtering, adding compound indexes, and introducing Redis caching.
- Built responsive patient-registration, sample-collection, and result-entry interfaces; feedback from five lab technicians informed changes that reduced average task completion time by 35%.
- Developed Node.js/Express REST APIs with MySQL, validation, error handling, and transaction management for patient records, test processing, and reporting.
- Implemented double-entry accounting, ledgers, reconciliation, inventory tracking, and automatic ledger entries for stock movements; the system tracked 500+ monthly transactions with zero reconciliation errors over six months and removed about eight hours of monthly manual reconciliation.
- Designed normalized MySQL schemas and data-integrity rules; used Sequelize transactions to protect financial and inventory updates.

TECHNICAL SKILLS

Frontend: React, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, Context API, Redux patterns

Backend: Node.js, Express, REST API design, authentication and authorization, request validation, error handling

Databases: MongoDB, Mongoose, MySQL, Sequelize, aggregation pipelines, query optimization, indexes, data modeling

Infrastructure and observability: Redis caching, Docker, Kubernetes, Grafana, high-volume systems (millions of requests)

Tools and practices: Git, Postman, API testing, debugging, performance profiling, requirements analysis, PDF generation, SMS integration

EDUCATION

B.Sc. in Computer Science and Engineering | American International University-Bangladesh (AIUB) | 2020-2024