

Tasnif Taussuk

Software Engineer | Backend & Database Specialist

Dhaka, Bangladesh | Available Immediately

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LinkedIn | Portfolio | GitHub

Professional Summary

Software Engineer with 6 years of experience building backend systems and enterprise applications across ERP, telecommunications, and financial institutions. Skilled in C#, .NET, Golang, SQL, PostgreSQL, REST, gRPC, and Kafka. Experienced in ERP financial workflows, data integrity, and end-to-end feature ownership, with proven results in database optimization, system reliability, and AI-assisted development.

Technical Skills

Languages: C#, Golang, SQL, JavaScript, Java, Python, HTML

Backend: ASP.NET Core, ASP.NET Web API, ASP.NET MVC, .NET Framework, Entity Framework, Dapper, Echo, Bun ORM

Architecture & Integration: REST APIs, Microservices, gRPC, Kafka, SignalR, Idempotent Consumers, Service Integration

Databases: PostgreSQL, Oracle, Microsoft SQL Server, MySQL, MongoDB

Engineering Practices: Database Design, Query Optimization, Transactional Workflows, Data Integrity, API Design, Unit Testing, Code Review, Git, Docker, Jenkins, Jira, Coverity

Frontend: Blazor, React, TypeScript

Professional Experience

Software Engineer

Apr 2024 – Present

Gononet Online Solutions Ltd.

Dhaka, Bangladesh

- Architected Go-based ERP services using Echo, gRPC, PostgreSQL, and Bun ORM; owned requirements-to-production delivery, frontend integration, and Saga orchestration with compensating transactions to maintain cross-service consistency. Leveraged AI-assisted tools to accelerate debugging, refactoring, and code analysis.
- Ensured transactional consistency across services by implementing PostgreSQL row locking, idempotent commands, and Kafka outbox events.
- Optimized PostgreSQL performance by analyzing execution plans and redesigning indexes, reducing query response times by 20%. Tuned the 15 slowest reporting queries, cutting p95 latency from 1.7s to 0.9s and peak database CPU utilization by 18%.
- Engineered concurrency-safe cashier sessions using transactional checks and partial unique indexes, recording zero session conflicts across 40 terminals in 12 outlets over six months.
- Implemented sales order state transitions with `TransitionStatus()` to support partial shipments, multi-stage fulfillment, and short closures.
- Consolidated Sales Order and POS invoices into a unified report, improving outgoing-stock visibility and reconciliation across sales channels.
- Engineered purchase workflows supporting partial receiving and short receiving.
- Designed multi-tenant hierarchical warehouse models spanning zones, aisles, and bins, enabling precise stock-to-location mapping and location-level accuracy.
- Developed a CTE-based dynamic data pipeline to support reporting and analytics.

Software Engineer

Mar 2022 – Mar 2024

NAAS Solutions Ltd.

Bangladesh

- Developed and maintained enterprise telecom applications in C#, .NET, Oracle, and SQL, including Commission Generation, Smart Queue Management, and Employee KPI and Achievement Tracking.
- Replaced raw WebSocket with SignalR to broadcast next-token updates to queue dashboards in real time. Improved maintainability and simplified real-time event handling through built-in connection management and broadcasting capabilities.
- Optimized complex SQL queries and KPI reporting logic using joins, aggregations, business rules, and indexing. Reduced month-end report runtime from 25 to 6 minutes and ad hoc reporting turnaround from 3 days to under 1 day.
- Served as a primary technical contact for client requirements, troubleshooting, and support across multiple teams, coordinating with teams of up to six members.
- Conducted Golang research and proof-of-concept work to evaluate backend approaches, informing the team's

later move to Go-based services.

Software Engineer

Datahead (PVT.) Ltd.

Sep 2019 – Oct 2021

Bangladesh

- Developed and maintained full-stack development of ERP, Provident Fund, and accounting applications using .NET, Blazor and Microsoft SQL Server for processes that depended on consistent relational data and accurate calculations.
- Wrote complex SQL queries for financial calculation.
- Introduced version-control practices, improving change tracking and collaboration and reducing code review time by 50%. Also contributed to client support and defect investigation.

Selected Project

FlowDocs — Document Approval and Workflow Platform

Go, PostgreSQL, SQLC, React, TypeScript

- Designed and developed a full-stack document workflow platform covering document management, configurable approval pipelines, employee and role administration, attachment handling, dashboards, and audit trails.
- Engineered a transactional workflow engine supporting sequential approvals, rejection, and send-back actions; addressed concurrent approval requests using PostgreSQL row-level locking, transaction-scoped operations, and retry logic to maintain workflow consistency.
- Implemented pipeline versioning, workflow-step snapshots, and concurrency-safe document numbering using database row locks, ensuring submitted documents retain their intended approval structure and preventing duplicate document numbers under concurrent submissions.
- Built JWT-based authentication, role-based authorization, and a React/TypeScript frontend for document lifecycle management and approval operations; established a backend test suite with 286 test functions across 27 files and verified frontend type-checking and production builds.

Education

Bachelor of Science in Computer Science

Southeast University, Dhaka, Bangladesh

2018