

MD. MOKHLESUR RAHMAN

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Senior Software Engineer | Tech Lead | Full-Stack .NET

14+ Years | OTA . Fintech / DFS . Foodie . E-commerce . ERP (Garments, Rice, Textile, Denim, Spinning) . AI / LLM / IoT

PROFESSIONAL SUMMARY

Senior Software Engineer and **Tech Lead with 14+ years** architecting and delivering high-performance, scalable enterprise systems on the .NET ecosystem across **OTA, Fintech/Digital Financial Services, Foodie, E-commerce, Loan Management and ERP (Garments, Rice, Textile, Denim, Spinning)**. Hands-on across backend (.NET Core, C#, Microservices, Clean Architecture, NodeJS, CQRS, Web APIs, RabbitMQ, Kafka, Redis, Docker, CI/CD) and frontend (Angular, React, TypeScript), with deep database engineering on AWS RDS MSSQL, Azure SQL, MSSQL Server, MongoDB and PostgreSQL. Lead full-stack delivery integrating AI/LLM (chatbots, dynamic pricing, recommendations, anomaly detection) and IoT (delivery, temperature, flight status). Lead 25+ engineering, QA and operations contributors; drive code review, mentoring, sprint planning, release management, GitLab CI/CD and stakeholder alignment - including a Japan-based client engagement using Claude AI-assisted delivery.

TECHNICAL SKILLS

Languages: C#, SQL, TypeScript, JavaScript, NodeJS, Python

Frameworks & Libraries: .NET 6/8, ASP.NET Core, ASP.NET MVC, Web API, Entity Framework, Dapper, LINQ, NodeJS, Angular (13/16/18), React.

Architecture & Patterns: Microservices, Clean Architecture, CQRS, Mediator, DDD, Event-Driven Architecture, RESTful APIs, GraphQL, Webhooks

Messaging & Caching: RabbitMQ, Kafka, Redis

Databases & Tools: AWS RDS, Azure SQL, MSSQL Server, MongoDB, PostgreSQL, Oracle, Profiler, Query Store, Execution Plan, Indexing, SQL Job,

Data Engineering & Cloud Data Platforms: Microsoft Fabric, Azure Data Factory (ADF), Azure Synapse, ADLS Gen2, Databricks, Apache Airflow, PySpark, dbt, Delta Lake, Power BI, Tableau.

Cloud & DevOps: Azure, AWS, Docker, Terraform, CI/CD Pipelines, Git, GitLab, GitHub Actions, Azure DevOps, IIS

Frontend: React, Angular, TypeScript, JavaScript, HTML5, CSS, Bootstrap, Ajax, jQuery, Razor View, Telerik UI

AI / LLM / IoT: LLM chatbots, AI dynamic pricing & recommendations, fraud/anomaly detection, credit scoring, IoT delivery & temperature monitoring, Claude AI / GitHub Copilot-assisted development

Integrations: Payment Gateways (bKash, Nagad, Rocket, Visa/Mastercard, bank transfers), GDS / Airline APIs, Third-Party APIs

Leadership: Tech leadership (25+), code review, mentoring, agile/scrum, sprint planning, release management, RAID logs, stakeholder communication, requirement gathering

PROFESSIONAL EXPERIENCE

Technonext Software Ltd (US-Bangla) - technonext.com | Senior Software Engineer / Tech Lead

Dec 2023 - Present

- Lead full-stack delivery of 6 OTA platforms (B2B agents, B2C customers, API partners) on .NET Core Web API, Angular, Dapper, AWS RDS MSSQL, Hangfire and MongoDB for centralized logging - Booking Engine, Ticketing, Price Engine, Fare Rule Management, AI-powered Search.
- Tech-led the OTA financial ecosystem - AR/AP, GL, B2B agent balance for 5000+ agents, automated bank reconciliation matching 10,000+ daily transactions under 5 minutes with 94% anomaly-detection accuracy; zero-revenue-leakage across 50,000+ daily transactions.
- Optimized database performance by 40% via Redis caching, SQL Profiler / Execution Plan tuning and strategic indexing; eliminated deadlocks; kept search response under 2s for 10,000+ concurrent users.
- Integrated GDS/airline APIs, payment gateways (bKash, Nagad, Rocket, Visa/Mastercard, bank transfers) and an LLM-powered support chatbot - cut average response time from 2 hours to 2 minutes; 70% queries handled without human intervention.
- Delivered Foodie food-delivery platform: restaurant onboarding, menu, order lifecycle, GPS tracking, ratings; AI recommendation engine (+23% AOV), LLM support (-45% tickets), IoT delivery & temperature monitoring (-18% delivery failures).
- Drive end-to-end release lifecycle via GitLab CI/CD and code-quality governance (PR review, coding standards, agile/scrum); coordinate cross-functional teams (engineering, QA, ops, finance) as technical point of contact for stakeholder alignment.

Freelance / USA Client | Senior Data Engineer (Remote)

Jan 2025 - Present (Concurrent)

- Designed and delivered scalable end-to-end ETL/ELT pipelines integrating SQL Server, PostgreSQL, REST APIs, cloud, Airflow, ADF, and Databricks.
- Architected enterprise Lakehouse/DWH solutions (Medallion Architecture) with PySpark, SQL, and dbt - incremental loading, SCD Type-2, dimensional modeling, performance tuning.
- Built analytics-ready datasets and Power BI semantic models; implemented data quality, governance, lineage, and security (Great Expectations, OpenLineage, IAM, encryption).
- Automated infrastructure, deployments, CI/CD orchestration via Terraform, Docker, Git, and Azure DevOps for scalable, reliable data platforms.
- Partnered with cross-functional stakeholders to design modern cloud data solutions across Fabric, Synapse, ADF, ADLS Gen2, and Databricks.

Freelance / Japan Client | Senior Full-Stack Engineer / Tech Lead (Remote)

Jun 2023 - Present

- Architected and tech-led a scalable e-commerce platform for a Japan-based client using .NET Core, Microservices, Clean Architecture with CQRS/Mediator pattern and Microsoft Azure SQL Database.
- Implemented event-driven communication between microservices via RabbitMQ for reliable async order/inventory processing; engineered data access with Dapper and EF Core, tuned via Query Store, Profiler, Extended Events and indexing.
- Delivered multi-currency checkout, Japanese localization (i18n), consumption-tax compliance and automated cross-border reconciliation; responsive frontend in React + TypeScript with Redis caching (-50% page load).
- Pioneered Claude AI-assisted delivery coding/review accelerator+40% velocity, -35% bug density; on-time delivery with 98% client satisfaction.

- Containerized services with Docker and automated testing/deployment via GitHub Actions CI/CD; built a complementary Node.js (Express) microservice for real-time webhook handling and third-party payment/shipping integrations.

Boishakhi Group - boishakhigroup-bd.com | Senior Software Engineer / Tech Lead

Apr 2019 - Dec 2023

- Tech-led parallel delivery of three enterprise products - Ready-made Garments ERP, Rice ERP and Manpower Management - using ASP.NET MVC, Web API, AngularJS and SQL Server; drove 30% operational-efficiency uplift across Group units.
- Garments ERP: Merchandising, Sample/Order, Costing, Cutting, Sewing, Finishing, Packing, Inventory, Shipment, Procurement, Sales, HRM, Accounts, Finance; production planning, line-balance, real-time WIP; demand forecast cut overproduction waste 27%, improved turnover 34%.
- Rice ERP: paddy procurement, weighbridge integration, drying, parboiling, milling, by-product tracking (bran, husk, broken), packing, warehouse, distribution; moisture-based pricing and batch-wise costing; automated reconciliation across procurement, milling output and sales.
- Manpower Management: full recruitment lifecycle - passport, medical, visa collect/sales, agent registration, candidate onboarding, integrated accounting; workflow automation for visa status tracking reduced manual processing by 60%.
- Optimized queries and indexing - cut report generation 50%; implemented SQL Job Scheduler for cross-system aggregation; integrated Power BI and RDLC for real-time MIS dashboards (plant-wise, SKU-wise, buyer-wise profitability).

Amber Software Solutions Ltd. (PARTEX GROUP)- ambersoftwareolutions.com | Senior Software Engineer / Team Lead Feb 2017 - Apr 2019

- Led full-stack delivery of Denim ERP (15+ integrated modules) and Spinning ERP using ASP.NET MVC, Web API, AngularJS, Bootstrap, HTML5 and SQL Server - complete textile manufacturing value chain from raw material to finished goods.
- Denim ERP: Merchandising, Weaving, Cutting, Washing, Dyeing, Production Planning, Quality Control, Inventory - cut stock-out incidents by 35%; full Accounts & Finance - GL, AR/AP, bank reconciliation, cost-center accounting, order-level P&L, trial balance, balance sheet automation.
- Spinning ERP: fiber procurement, winding, packing, machine-wise production, energy consumption, count-wise output, wastage (hard/soft/sweep) and quality (CSP, TPI, CV%); preventive-maintenance schedule and downtime tracking reduced unplanned downtime 35%.
- Built ABS ERP modules (Purchase, Sales, Inventory, Accounts, Production, HRMS, Distribution) and a Windows Restaurant POS in C#/.NET - food ordering, kitchen workflow, sit booking/release, payment, accounting end-to-end.
- Secured HRMS via Role-Based Access Control (RBAC) for 5000+ users; real-time reporting (RDLC, Telerik) for P&L and operational dashboards; real-time inventory tracking with low-stock alerts.

Rahimafrooz - rahimafrooz.com | Software Engineer

Apr 2014 - Feb 2017

- Delivered RASolarERP and the Loan Management module (loan origination, KYC, credit assessment, repayment scheduling, late fees, collection, portfolio reporting) using C#, ASP.NET MVC, JavaScript, jQuery, Ajax and SQL Server.
- Built a rule-based credit-assessment engine over customer demographics, payment history and behavioral patterns - reduced default rate by 28% and cut loan-processing time from 3 days to 4 hours.
- Delivered automated repayment reminders (SMS, email, push) with personalized messaging; financial module - supplier/buyer accounts, AR/AP, bank reconciliation, automated balance sheet and trial balance.
- Optimized stored procedures, functions for complex business; cut process cycle time 30%; built interactive UI with Razor View, jQuery, Telerik UI.

Unisoft Systems Ltd. - uslbd.com | Programmer

Jan 2012 - Apr 2014

- Developed HRM and multi-kitchen POS using C#, ASP.NET, jQuery, JavaScript, SQL Server and SSRS reporting; engineered real-time kitchen communication, reducing order-preparation errors 25%.
- Automated HR payroll, leave, attendance, cutting processing time by 15 hours; designed, normalized database for scalability and accuracy.

KEY PROJECT ACHIEVEMENTS

- **OTA Program:** 6 platforms delivered - booking, ticketing, pricing, search, fare rules, full financial reconciliation; B2B network of 5000+ agents with real-time balance, commission and automated settlement.
- **Japan E-commerce:** On-time delivery, 98% client satisfaction; pioneered Claude AI-assisted engineering (+40% velocity, -35% bug density).
- **Boishakhi ERP:** 30% operational efficiency uplift; 60% manual-processing reduction across Garments ERP, Rice ERP and Manpower Management.
- **Textile ERP (Partex):** Denim, Spinning ERP across 15+ modules covering full manufacturing lifecycle; -35% unplanned downtime, -35% stock-outs.
- **Loan Management:** Processing time cut from 3 days to 4 hours; default rate cut 28% via automated credit-assessment engine.
- **Payments & Reconciliation:** Unified orchestration of 50,000+ daily transactions; auto-recon of 10,000+ daily, 94% anomaly-detection accuracy.
- **Release Governance:** GitLab CI/CD release governance across multiple programs - tighter delivery cadence and stronger quality gates.

TOOLS, METHODS & TECHNICAL FLUENCY

Engineering Practices: Code review, pair program, mentor, sprint plan, backlog, retrospectives, RAID logs, release management, UAT, go-live.

PM & Collaboration Tools: Jira, Confluence, Trello, Asana, Figma, Lucidchart, Miro

Reporting & Analytics: Power BI, Tableau, Mixpanel, Google Analytics - KPI dashboards, cost-benefit analysis, ROI modeling

DevOps & AI-Assisted Delivery: Git, GitLab, GitHub Actions, Docker, IIS | Claude AI, GitHub Copilot

System Architecture: Monolith, Microservices, Event-Driven, Clean Architecture, CQRS, Domain-Driven Design

Domain Expertise: OTA / Travel Tech, Fintech / Digital Financial Services, Loan Management, E-commerce, Foodie / Food Delivery, ERP (Garments, Rice, Textile, Denim, Spinning, Solar), HRMS, POS

EDUCATION, CERTIFICATIONS & LANGUAGES

• [Microsoft Certified: Azure Database Administrator Associate \(DP-300\) - Microsoft, 2025](#)

- Bachelor of Science in Information and Communication Engineering - Islamic University, Kushtia, Bangladesh
- Languages: English (professional fluency - business & technical documentation, executive presentations) | Bengali (native)