

Full-Stack Software Engineer and Architect with 10+ years of experience in building scalable, distributed systems, multi-tenant SaaS platforms, and real-time, mission-critical applications. Specialized in the .NET ecosystem, event-driven architectures, and cross-functional engineering leadership.

Work Experience

Lead Full-Stack Engineer **Bangladesh Army** **Jul 2025–Present**
Dhaka, Bangladesh.

- Designed distributed systems grounded in Domain-Driven Design, implementing gRPC with mTLS security for low-latency inter-service communication
- Implement OAuth2/OIDC identity management using OpenIddict, centralizing authentication across microservices
- Engineer async messaging flows with RabbitMQ and Transactional Outbox Pattern, guaranteeing transaction consistency and idempotency
- Establish enterprise-wide distributed tracing via OpenTelemetry mapped to Grafana LGTM stack
- Implement and maintain end-to-end CI/CD pipelines using Jenkins, automating build, test, and deployment stages across microservices environments
- Technologies:** .NET 8, PostgreSQL, RabbitMQ, Jenkins, Grafana, OpenTelemetry, gRPC, OpenIddict

Senior Software Engineer **PPG.DEV & PawfectNotes** **2024–Jun 2025**
Customer Success team US, Remote

- Designed a real-time corporate email ingestion system processing metadata via Azure Functions and Google Cloud Pub/Sub queues
- Implemented Microsoft Entra ID authentication and integrated ingestion webhooks into client enterprise platforms
- Developed document automation libraries using Aspose engine for Word and PowerPoint template processing
- Integrated Deepgram AI Speech Recognition SDK with real-time WebSocket streams for automated veterinary clinical scribe
- Re-engineered browser extension data synchronization, eliminating offline sync loss and delays across cross-tab document states
- Integrated with many third-party APIs and improved the note syncing mechanism in the browser extension.
- Technologies:** Azure Functions, Microsoft Entra ID, Microsoft Graph API, GCP, Aspose, Deepgram AI SDK, C#, WebSockets, TypeScript, React

Senior Software Engineer **Wafi Solutions** **2023–2024**
Dhaka, Bangladesh

- Led product engineering for international clients, enforcing code reviews, xUnit testing, and data migrations
- Built a multi-tenant SaaS engine for Geotechnical Log Management with automated tenant isolation and JSON template exports/imports
- Reduced production bugs by establishing automated testing, mandatory code reviews, and coding standards
- Implemented system-wide localization and globalization supporting 6 languages, enabling multi-region deployment for international clients
- Technologies:** .NET 7, ABP Framework, xUnit, MS SQL Server, Entity Framework Core, jQuery

- Collaborated with UNICEF, JTI, and IBFD to deliver custom software with stringent regulatory and reporting requirements
- Optimized complex analytic report generation, reducing execution times by 70% through query and index optimization
- Built UNICEF's Educational Information Management System (EIMS) with Google Maps API and real-time SignalR notifications
- Accelerated client platform UX by tuning front-end bundles using Google Lighthouse benchmarks
- **Technologies:** Go, .NET Core, SQL Server, MySQL, Angular, PrimeNG, SignalR, Google Maps, amCharts

Software EngineerNext IT Limited
Dhaka, Bangladesh

2018–2020

- Developed modular purchase order management frameworks and material tracking engines for ERP systems
- Refactored legacy stored procedures and untracked spaghetti code into testable object-oriented solutions
- Engineered automated reports using Crystal Reports and RDLC engines for sales, production, proforma invoices, and LC tracking, reducing manual reporting overhead
- **Technologies:** ASP.NET MVC 4, AngularJS, SQL Server 2008, Crystal Reports, RDLC

Software EngineerNtita IT Limited
Dhaka, Bangladesh

2016–2018

- Built mission-critical Loan Appraisal web system and hybrid Ionic mobile app for SAJIDA Foundation
- Developed a mobile KYC data collection app with offline support, enabling off-site loan officers to capture data anywhere and seamlessly sync uploads, slashing loan disbursement time by 75%.
- Designed modular ERP components for task tracking, leave management, and material production lines
- **Technologies:** ASP.NET MVC 5, WebAPI 2, AngularJS, Ionic Framework, SQL Server, RDLC

Education and Certifications

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- **B. Sc. in Computer Science and Engineering (CSE)**, Presidency University, Dhaka, Bangladesh **2022–2026**
 - **Diploma in Civil Engineering**, Computer Science and Business Studies Institute, Bogra, Bangladesh **2006–2010**

Technologies and Languages

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- **Languages:** C#, Go, TypeScript, JavaScript, SQL, HTML5, CSS3
 - **Backend:** .NET 8+, ASP.NET Core, ABP Framework, Clean Architecture, Microservices,DDD, SOLID, REST, gRPC (mTLS), xUnit
 - **Frontend:** Angular, React, AngularJS, Ionic, jQuery, PrimeNG, amCharts
 - **Distributed Systems:** RabbitMQ, MassTransit, WebSockets, SignalR, Transactional Outbox Pattern
 - **Databases:** PostgreSQL, SQL Server, MySQL, Entity Framework Core
 - **Cloud/DevOps:** Docker, Azure Functions, GCP Pub/Sub, Jenkins, Azure DevOps, Git, JIRA
 - **Observability:** OpenTelemetry (OTLP), Serilog, Grafana LGTM Stack (Loki, Grafana, Tempo, Mimir)
 - **Integrations:** Deepgram AI SDK, Microsoft Graph API, OpenIddict, Microsoft Entra ID, Gmail API, Google Maps API, Aspose