

MD SAHID HOSSAIN

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.NET SOFTWARE ENGINEER

Microsoft Certified Software Developer with over 6 years of hands-on experience in designing and delivering scalable, high-performance enterprise applications. Specialized in integrating global airline and hotel APIs (Sabre, Amadeus, Emirates, Singapore Airlines, Qatar Airways, Hotel Beds, TravelPort) into robust flight and hotel booking platforms to drive next-gen travel technology solutions. Highly skilled across the full stack, with expertise in .NET, ASP.NET Core, Web APIs, RESTful services, SQL Server, CI/CD Pipelines and AWS. Passionate about continuous learning and solving complex business challenges through modern, scalable, and user-friendly software solutions across diverse industries.

- SOLID Principles • Problem Solving & Debugging • Requirement Analysis • API Development & Integration
- Online Travel Agency (OTA) • Cloud Technologies • Team Collaboration & Communication

Languages: C#

Web: HTML, CSS, JavaScript, jQuery, AJAX, Bootstrap, JSON, XML, Node.js

Web Services: ASP.NET Web API, RESTful APIs, SOAP, JWT, CORS, Webhook

Web/App Servers: IIS

Frameworks: ASP.NET MVC, ASP.NET Core, ASP.NET Web API, .NET Framework, Entity Framework, ADO.Net, Selenium

Databases: MS SQL Server, MySQL, PostgreSQL, MongoDB, DynamoDB

Development Architecture / Design Patterns: MVC, Layer Architecture, N-tier Architecture, Repository Pattern SOLID Principles, Singleton Pattern, Factory Method Pattern, Dependency Injection

SDLC: Agile, Scrum, Kanban, Waterfall

Tools: Visual Studio, VS Code, Azure DevOps, SSMS, Postman, Jira, Git, GitHub, GitLab, Bitbucket, Star UML, Maven

Cloud: AWS (Lambda, API Gateway, S3, DynamoDB, CloudFront, CloudFormation, CodePipeline, EC2, Cognito)

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

PRIME TECH SOLUTIONS LTD, Dhaka, Bangladesh • 05/2019 – 07/2024

A custom software company delivering innovative travel technology solutions for global clients.

Software Engineer

- Led design and development of a highly scalable Flight and Hotel Booking Engine supporting both B2B and B2C models, utilizing ASP.NET Core, Web API and MS SQL Server.
- Integrated 20+ global airline and hotel APIs (SABRE, Amadeus, Emirates, Singapore Airlines, TravelPort) using REST and SOAP protocols to enable real-time availability and seamless booking workflows.
- Built secure APIs with OAuth 2.0 and JWT authentication, improving API governance and client security.
- Implemented Amazon S3 for static storage of flight/hotel data, improving availability and data access scalability.
- Integrated payment gateways (SSLCOMMERZ, Bkash, eSewa, Khalti and local banks) to enable secure transaction workflows and enhancing customer payment experience across B2B/B2C portals.
- Acted as Acting Team Lead: conducted daily Scrum meetings, managed sprints, gathered requirements from clients, and ensured on-time project delivery.
- Developed a feature-rich Admin Portal with ASP.NET MVC, Javascript, JQuery and SQL Server, automating pricing updates, agency onboarding, and booking reconciliation, reducing manual operational effort by 60%.

Technologies Used: C#, Asp.Net Web API, RESTful & SOAP Web Service, AWS, .Net Core, MS SQL Server, Javascript

NOGOR SOLUTIONS LIMITED, Dhaka, Bangladesh • 09/2017 – 12/2018

A custom software firm in Bangladesh providing technical solutions for clients.

Junior Software Engineer

- Contributed to the design and development of a Stock & Inventory Management System using ASP.NET Web Forms, ASP.NET MVC, and SQL Server.

- Integrated WCF Services to enable communication between modules and streamline inventory updates across multiple branches.
- Created dynamic reports and dashboards using RDLC/Crystal Reports for inventory tracking, reorder levels, and purchase analytics.
- Developed user interfaces for managing product catalogs, supplier data, and stock movements using ASP.NET Web Forms and MVC Razor Views.
- Collaborated with senior developers to troubleshoot bugs, optimize SQL queries, and maintain system performance.
- Successfully implemented real-time stock adjustment features, reducing inventory mismatches and manual reconciliations by 40%.

Technologies Used: *Asp.Net Web Form, Asp.Net MVC, Windows Form, MS SQL Server, Windows Service.*

ACADEMIC PROJECTS

Maharishi International University (2025)

- **Full Stack Serverless E-Commerce System:** Developed a full-stack serverless E-Commerce app using AWS, with a .NET Core backend powered by modular Lambda functions, API Gateway, and DynamoDB. Built a React frontend hosted on S3 and served via CloudFront. Implemented Cognito, secure image uploads to S3, and automated deployments with CloudFormation, CodePipeline, and CodeBuild. Tech stack: AWS Lambda (.NET Core), DynamoDB.
 - **Flight Booking System:** Developed a full-stack Flight Booking and Management System using React and Spring Boot, with MySQL for data handling and AWS for scalable deployment. Implemented RESTful APIs, JWT authentication, and role-based access control. Key features include flight search, booking management, and admin tools. Tech stack: Spring Boot, React, MySQL, AWS S3, CI/CD.
 - **Hotel Booking System:** Developed a web-based hotel reservation platform with features like room management, guest reservations, and payment processing. Built with Spring Boot, using RESTful APIs, Spring Security for auth and RBAC, JMS (ActiveMQ) for notifications, and AOP for logging. Supported JSON/XML content negotiation and environment-based DB configs (H2/MySQL). Tech stack: Spring Boot, MySQL, ActiveMQ.
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EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Architecture, Software Engineering, Cloud Computing, Algorithms

Post Graduation Diploma in Software Engineering

IDB-BISEW, Dhaka, Bangladesh (08/2017)

Bachelor of Science in Computer Science and Engineering

Islamic University, Kushtia, Bangladesh (05/2014)

CERTIFICATIONS

[Microsoft Certified Solutions Associate: Web Application \(MCSA\)](#)

[Microsoft Certified Solutions Developer: App Builder \(MCSD\)](#)

[Microsoft Specialist: Programming in HTML5 with JavaScript and CSS3](#)