



# Minhazul Abedin

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## Summary

I am a Software Engineer with over 1.5 years of experience in developing and deploying robust software solutions, focusing on .NET technologies such as .NET Framework, ASP.NET Core, and ASP.NET MVC. I am skilled in building scalable backend applications and microservices.

My role involves developing new features, debugging issues, writing clean, structured, and reusable code, and designing microservices and databases. Besides coding, I enjoy playing chess and table tennis, reading tech blogs and books, and exploring AI advancements in my spare time.

I am passionate about leveraging my skills to solve complex challenges and deliver high-quality software products. I aspire to be a top leader in software development.

## Education

### Noakhali Science and Technology University

February 2022

*Bachelor of Science in Computer Science and Telecommunication Engineering (CGPA: 3.58 / 4.00)*

*Noakhali, Bangladesh*

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Discrete Math, Operating System, Computer Architecture, C++ Programming, Networking, Artificial Intelligence, Software Engineering, Database Management System, Compiler Construction

## Technical Skills

**Languages:** C#, Python, C++, JavaScript, Java, Dart

**Backend:** ASP.NET MVC, ASP.NET Core WebAPI, .NET Framework

**Frontend:** ReactJS, NextJS, HTML5, CSS3, Ajax, jQuery, Bootstrap

**Mobile:** Flutter

**Databases:** MS SQL Server, PostgreSQL, Cassandra, Redis

**Message Broker:** Kafka

**Tools:** Docker, Visual Studio, Visual Studio Code, JIRA, Confluence, Postman

**Cloud Platform:** AWS Simple Storage Service (S3), AWS CloudFront, AWS Elastic Compute Cloud (EC2), AWS RDS

**Version Control System:** Git (Used GitHub, Bitbucket)

## Experience

### Astha IT

December 2022 – Present

*Software Engineer I*

*Dhaka, Bangladesh*

- Developed and maintained backend solutions using .NET Core and Microservices architecture, contributing to improved scalability and performance.
- Implemented a robust file storage system with functionalities for uploading, downloading, moving, and deleting files, including folder uploads and chunked uploads for large files, enhancing client capabilities and system performance.
- Enhanced client application by integrating and optimizing microservices within a robust multi-tenant architecture, improving overall system efficiency and scalability.
- Developed event management features by implementing a calendar for scheduling and managing events.
- Boosted application performance with in-memory caching, significantly improving speed and responsiveness.
- Developed an automated mechanism to restart IIS, ensuring continuous uptime and recovery from unexpected downtimes.
- Optimized large data uploads for client processes, achieving a 75% speed improvement for datasets (50k+ records) through bulk insert operations and query optimization.
- Served as an instructor for Astha IT's CodeCamp, teaching problem-solving and OOP to empower tech talents from Bangladesh to excel globally.

### Astha IT

August 2022 – November 2022

*Software Engineer Intern*

*Dhaka, Bangladesh*

- Took part in the Astha IT Dev Bootcamp for Coding Champs, gaining practical experience with ReactJS, NextJS, Flutter, .NET Core, and Design Patterns.
- Developed small-scale projects, including an e-commerce site, web API, mobile app, and console application, to learn and apply new technologies.

## Projects

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### **DocIT** | *Angular, React, ASP.NET Core, Cassandra, PostgreSQL, Kafka* — **Astha IT**

[DocIT site](#)

- DocIT is a cloud-based learning management system designed for healthcare organizations to create customized training modules and access pre-built courses, enhancing staff proficiency in healthcare operations and clinical documentation.
- Maintained and monitored 13 microservices on the backend, ensuring system stability and resolving issues.
- Worked on various microservices, including user service, profile service, payment service, email service, storage service, and business-specific services.
- Developed key features such as course management, organization creation, and progress tracking and reporting.
- Assisted in converting the project from a single-tenant to a multi-tenant architecture, ensuring platform data is separated by client or organization.

### **Caboodle Services** | *ReactJs, NextJs, Tailwind, ASP.NET Core, PostgreSQL* — **Astha IT**

[Caboodle site](#)

- Caboodle is an all-in-one platform for natural product sales teams, integrating sales tracking, trade promotions, data analytics, and marketing functions.
- Designed and optimized database schemas to efficiently handle large-scale client sales data.
- Implemented bulk operations to improve data insertion speeds, supporting uploads of CSV files ranging from 100 to 100k+ records, enhancing overall data upload efficiency.
- Optimized queries to improve system performance and responsiveness for data retrieval.
- Transformed unstructured data into structured formats for generating comprehensive reports and providing clients with valuable business insights.
- Developed a file storage system allowing brands to manage files, including uploading, downloading, deleting, moving, and folder management, to enhance document handling capabilities.

### **StrataSpot** | *ASP.NET MVC, MSSQL Server, SmarterMail* — **Astha IT**

[StrataSpot site](#)

- StrataSpot is a comprehensive platform for managing residential strata, centralizing communication between tenants, residents, and property managers. It facilitates the management of maintenance requests, facility bookings, and community engagement, providing clear communication and efficient operations for all stakeholders.
- Maintained one of Astha IT's oldest and most successful projects, built on the nopCommerce architecture, ensuring site stability and performance.
- Debugged the codebase, resolved bugs, and implemented improvements, deploying updates on a Windows server hosted via IIS.
- Developed an automated IIS restart functionality to maintain uptime, addressing server issues by automatically restarting the IIS application pool when necessary, using a custom Windows service (StrataSpot Cron Service).
- Implemented in-memory caching to enhance site speed and responsiveness, improving the user experience.
- Developed a calendar feature for event management, enabling residents to create events, select participants, and notify them via email upon event creation.

### **PizzaHub** | *ReactJS, NextJS, Material UI, Firebase* — **Intern Project**

[GitHub Repo](#)

- Created a small e-commerce website for ordering pizzas with features like product listing, quick-view, cart management, checkout with form validation, order details, and order history.

### **Contact Book App** | *Flutter, Firebase* — **Intern Project**

[GitHub Repo](#)

- Developed a mobile app for managing contacts, featuring user authentication, CRUD operations, photo uploads, multi-field searches, and direct call, message, and email functionalities.

### **Discord Personal Chat Bot** | *Python, Ollama, PostgreSQL (pgvector), OpenCV* — **Pet Project**

[GitHub Repo](#)

- Developed a Discord bot for image similarity searches, text summarization, and intelligent Q&A, integrating pgvector with PostgreSQL for efficient vector similarity searches.

## Publications

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- "DELVING INTO BLOOD TRANSFUSIONS DATA THROUGH DATA MINING: A STUDY OF MAIZBHANDARI SHAH EMDADIA BLOOD DONORS GROUP TO SELECT VOLUNTEER BLOOD DONORS EFFICIENTLY," AIJMSR, 2021.  
[Paper Link](#)