

Rafsanul Hasan

T-Shaped Software Engineer

 [/in/rafsanulhasan](https://www.linkedin.com/in/rafsanulhasan)

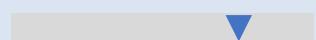
Total years of experience:

12+

EXPERTISE

0  10

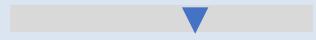
.NET Stack



Web Development



Mobile Development



Architecture & Design



Process Management



DevOps (CI/CD)



EDUCATION

American International University
Bangladesh (AIUB)

Bachelor of Science in Computer
Information System (BScCIS)

Dropout with 2 courses left

CERTIFICATIONS



- Microsoft Certified Solutions Developer (MCSD)
<https://learn.microsoft.com/en-us/certifications/microsoft-certified-solutions-developer/>
<https://users/rafsanulhasanrafsan/transcript/71e5xhlmjxq9jr5>
- Advanced Certified Scrum Developer (A-CSD)
<https://www.scrumalliance.org/community/profile/rhasan8>

Language Proficiency

- Bangla: Native Language
- English: (IELTS - 5.5, Avg 5.5)

REFERENCES

Available on Request

PROFILE

As a T-Shaped .NET Developer, I have been actively working on solutions designing, architecture & development, testing and designing & configuring CI/CD Pipelines since 2012. As a continuous learner, I am learning various team building techniques in order to improve my interpersonal communication and soft skills along with technical skills to become a better team player and have the ability to contribute in the overall business agility.

CAREER

Senior Software Engineer 10/2021 – Present

StreamsTech Limited

Working as a team player in a fairly large cross-functional agile teams across the globe. Major responsibilities include Team Collaboration, Join Scrum Events, Reporting and Requirement Analysis.

- Full-stack Feature Development, Bug Fixes & Performance Improvement
- Automated Build, Test and static code analysis Process
- Improving Code Coverage
- Improving Both User Experience (UX) and Dev Experience (DX)
- Took part in improving the overall architecture
- Refactoring for clean code
- Empowering team in learning different technologies collaboratively
- Working with the DevOps team in configuring CI/CD
- Pair Programming and Mob Programming with teams

GitHub Open-Source Developer

01/2016 – Present

Symbiosis ICT Solutions

Has been contributing to OSS development on GitHub. Outsourcing small/medium scale projects with Cloud Native Architectures.

<https://www.github.com/rafsanulhasan>, <https://www.github.com/sicsbd>

<https://github.com/PasheProject/pasheproject.github.io>

Software Engineer Consultant (Senior) 04/2021 – 09/2021

Aeonic Technologies (Part-time)

Full-stack app/library development, Configuring CI/CD for Build, Test, Static Code Analysis and Deployment, Applying Agile Methodologies in whole Application lifecycle, Designing DB.

Team Lead (Hourly job)

05/2020 – 02/2021

Sun Code Factory LLC

Assisting in architecting and designing a sample application to demonstrate TheSharpFactory to manipulate data from SQL Server.

- Design and Architecture, applying programming/design principals.
- Managing the development process

Coding, identifying, and fixing code smells, establishing best practices.

<https://www.github.com/thesharpfactory/samples>

Software Engineer

05/2019 – 02/2020

Dev Skill

Architecting, Designing, and building different libraries and containerized apps, automating build, test, and deployment process.

Independent Software Vendor (ISV)

01/2012 – 12/2016

Building, deploying, and maintaining solutions by analysing customer requirements.

Trainings

Software Engineering

- Certified Kubernetes Developer (CKD)
Udemy
Current
- Agile Certified Practitioner
PMaspire Bangladesh
2023
- Dev Ops
Page Cloud Academy
2020
- Advanced Certified Scrum Developer
Tech Masters
2020
- Certified Scrum Master
Tech Masters
2019
- Web App Development using ASP.NET MVC Core
Dev Skill
2019
- Web App Development using ASP.NET MVC
AIUB CEC
2012
- Misc
LinkedIn Learning & Udemy

Networking & Security

- Cisco Certified Network Professional (CCNP)
AIUB CEC
2012
- Certified Ethical Hacking (CEH)
AIUB CEC
2016

Cloud Technologies

- Azure
Microsoft Learn and MCP learning paths
- AWS

Tools & Technologies Usage

- Azure
Azure Static Web Apps, Application/API Gateway, Azure Front Door (AFD), Service Bus/Mesh, ACS, AKS, Functions, Storage + Queues, CosmosDB, SignalR Service
- AWS
Lambda, DynamoDB, SQS, ECS, Fargate, API Gateway, S3, AppSync (GraphQL)

SKILLS

(For detailed skill sets please visit my GitHub profile at [rafsanulhasan](https://github.com/rafsanulhasan))

Software Design, Architecture & Requirement Analysis

1. Architectural Styles & Patterns

Styles: Microservices, N-Tiered Layered Architecture, Clean Architecture (CA), Vertical Slice Architecture (VSA), Distributed Architecture, **SOA:** REST, GraphQL, gRPC & OData, Serverless/Cloud Native Architecture, Event Driven Architecture (EDA)

Patterns: MVC, MVVM, MVU, Redux, CQRS, Pub-Sub, Inbox/Outbox, Saga, Distributed Transaction, Distributed Locking, API Gateway, Application Gateway, Reverse Proxy, Back-end For Front-end (BFF)

2. Design Principles & Patterns

Patterns: (Abstract) Factory, Builder, Singleton, Adapter, Proxy, Decorator, Façade, Private Class Data, Command, Mediator, Null Object, Observer, Strategy, Templated Method, State

Object Oriented Analysis & Design, Principles and Practices: SOLID, DRY, YAGNI, DDD, Design Principles, TDD, ATDD, BDD

3. Requirement Analysis, UML Diagramming & Documentation

Use Case Diagrams, Class Diagrams, ER Diagrams, Activity Diagrams, Sequence Diagrams, Workflow Diagrams, Data Flow Diagrams, Layer Diagrams, High Level Architecture Diagrams, Deployment Diagrams, CI/CD Workflows for automation

4. Persistence: MSSQL, Oracle, PostgreSQL, Cloud Storages like AWS S3, DynamoDB, Azure Storage, CosmosDB, GCP Realtime Database

5. Database concepts: Normalization, Denormalization, Sharding, Partitioning, High Availability and Failovers

6. Message Brokers / Queues: In-memory, RabbitMQ, Redis Bus, Azure Service Bus, Azure Storage Queues, Azure Service Mesh

7. Caching: In-memory, Redis, Hybrid caching, 2nd level caching, Client-side caching at HTTP level with cache control headers and ETag Caching

8. Multitenancy: Designing multi-tenanted SaaS based solutions

Programming, Software Engineering, Development & ALM

1. Programming Languages, Paradigms and Problem Solving Languages

Mainstream: C#, JS/TS, HTML, XML, XAML, AXML, YML, Ansible, Batch/Bash/Shell Scripting

Intermediate Level: C++, Assembly Language

Entry Level/Learning: C, Python, Rust

Paradigms

Asynchronous Programming/Multithreading, Parallel Programming & Concurrency, Reactive Programming (Rx), Functional Programming, OOP, AOP, Procedural Programming, System Programming

Problem Solving

Solved around 200 programming problems across different platforms like Dev Skill, UVA, Hacker Rank, Leet Code and have been actively solving more complex ones

2. Software Development & Deployment

Full Stack platform agnostic app development using .NET/Node.JS with ASP.NET, ASP.NET MVC, Blazor, Xamarin, MAUI, Angular, React and React Native. Also worked with app containerization and orchestration with docker, swarm, docker-compose and Kubernetes.

3. Software Process Management, Deployment and ALM

Waterfall Model

Agile Principles & Methodologies

Scrum Framework, Rapid Application Development (RAD) Framework, Extreme Programming (XP) Framework, Kanban

Source Control & Change Management, DevOps & CI/CD

SCCM: GitHub, GitLab, Azure Repos, SonarQube Code Analysis

Backlog Management: GitHub Projects, Azure Boards, JIRA

CI/CD: Azure Pipelines, GitHub Actions, Teamcity, GitLab