

Rafsanul Hasan

T-Shaped Software Engineer

 /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 (MCSA)
<https://learn.microsoft.com/en-us/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*, *Facade*, *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*