Md Zakaria Masud

BSc in CSE

East Delta University

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" I am committed and enthusiastic in what I do.
I want see myself as a good and efficient Full Stack Software Engineer and to working in a challenging
environment that push to the best level of my efficiency for exploring the arena of Software Engineering."

Summary

Experienced Software Engineer with a demonstrated history of working in the computer software industry. Skilled in C#, .NET, JavaScript/TypeScript, and Teamwork. Strong engineering professional with a Bachelor of Science in Computer Science and Engineering from East Delta University. Passionate about learning new technical, analytical staffs and also enthusiastic about software development.

Skills

- C#, JavaScript, TypeScript, C, Java, Python, PHP, SQL.
- Asp.Net Core (MVC, Web API, Razor Pages, EF Core, Dapper, SignalR), OutSystems.
- Asp.NET (MVC, Web API, Web Forms, EF), Windows Forms Application, Laravel
- HTML, CSS, Bootstrap, Figma, Jquery, React Js, Angular, Angular Material, Angular Flex-Layout.
- MS SQL Server, MySQL, Postgresql.
- N-Layer architecture, clean architecture with CQRS and MediatR pattern, Micro Services, Repository and Unit of Work Pattern.
- Docker, Kubernetes, AWS EKS Fargate , EMQX MQTT Broker, Git and TFS Version Controlling with Github, GitLab, Azure DevOps.

Experience

S3 Innovate Pte. Ltd. (Joint venture company of Surbana Jurong)   *Midview City, Singapore (Remote)*

Software Engineer L-II   Apr 2023 – Present

Junior Software Engineer   May 2021 – Mar 2023

- Developing REST API by using Asp.Net Core Web API maintaining clean architecture with CQRS and Mediator pattern.
- Developing and modifying IOT Backend micro services (.Net Worker services) as per requirements.
- Developing ETL for IoT sensors data from MQTT Broker based on different rulesets for generating alarms/events or monitoring.
- Using MSSQL Server and PostgreSql for maintaining Database with Dapper and EF Core
- Front-End development by using Angular, Angular Material, Angular Flex-Layout, Figma.
- R&D about C# advance features, Request Bin, Kubernetes, Rancher, etc.
- Version Controlling by using Git, SourceTree, Azure DevOps.
- Developing Jobs using Quartz.NET
- Using Docker and Kubernetes for testing and deployment to AWS EKS Fargate.
- Doing Requirements Analysis, UAT, Documentation

Vonome Software and System   *Dhaka, Bangladesh*

Software Developer   July 2020 – Jan 2021

- Making SRS for PIM & VMS Modules of ERP Project and design database with PostgreSQL.
- Developing Web API with Asp.Net Core with Clean Architecture pattern.
- Testing API
- Version control on SourceTree

Chandrim Soft   *Chittagong, Bangladesh*

Trainee Software Developer   Jan 2020 – March 2020

- Database design in Microsoft SQL Server.
- Develop Back-End with Asp.Net with MVC for CMP Officer's Mess Project

- Give presentation to the clients (CMP)

Projects

- **CFEMS** *Official*

  Commuter Facility Equipment Monitoring Services is a govt. project of Singapore by which the administrator monitors all the equipment of different contractors. It is a IOT devices monitoring service

  Tools and Technologies: .Net 6 (Web API, Worker Services, SignalR, EF Core), EMQX MQTT Broker, Dapper, Angular 12, Angular Material, SQL Server 2019, Clean Architecture with CQRS and MediatR, Micro Services, Docker, K8s, Visual Studio 2022, VS Code, SourceTree.

- **Reactivities** *Personal*

  It is a social media app like facebook. We can post our activities, follow other activities and many more.

  Tools and Technologies: Asp.Net Core Web API, Clean Architecture with CQRS and MediatR, Identity, SignalR, React with TypeScript, Mobx, Ef Core, Sqlite, Visual Studio Code. SourceCode: https://github.com/zakariabijoy/Reactivities

- **BulkyBook** *Personal*

  This is an online shop book selling asp.net core mvc web app using all feature of asp.net core mvc with Stripe and Braintree payment system.
  Tools and Technologies: Asp.Net Core MVC, Identity, Ef Core, Repository Pattern, MS SQL Server, Visual Studio 2019.
  Source Code: https://github.com/zakariabijoy/BulkyBook Live Demo: https://bulkybookzb.azurewebsites.net/

Thesis

- **DDoS Attack Detection with Protocol Type Using Machine Learning**

  In this thesis we proposed a Hybrid Ensemble algorithm which is the combination of best classification of five machine learning algorithms for DDoS attack detection with protocol type. We evaluate six normal machine learning algorithms and one hybrid algorithm and carefully compare their performance. Our experimental results show that more than 96.85% DDoS attack with three protocol type are successfully detected.
  Tools and Technologies: Python, Anconda(Jupyter Notebook) ,Pandas, Numpy, Scikit-learn , Matplotlib.pyplot.
  Source Code Link:
  https://github.com/zakariabijoy/MachineLearning/tree/master/DDoS%20attack%20detection%20with%20protocol%20type

Training

ASP.NET CORE MVC WITH ANGULAR AND EF CORE *Dhaka, Bangladesh*
PencilBox 2021

Complete guide to ASP.NET Core MVC (v3.1) *Udemy*
Udemy 2020

Web Application Development-DotNet *Chittagong, Bangladesh*
BASIS Institute of Technology and Management (BITM) 2019

Education

BSc in **Computer Science and Engineering** *Chittagong, Bangladesh*
East Delta University 2014 - 2019

- CGPA 2.38/4.00

Personal Details

Date of Birth: 11th December 1996.
Nationality: Bangladeshi.
Permanent Address: Katachara, Mirsarai, Chittagong.
Blood Group: B+
Hobbies: Drawing, Gaming
Interests: Full Stack with Asp.Net Core and React/Angular/Blazor, Problem solving practice, Data Science, AI, React Native/ Flutter/MAUI, MERN.