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EXPERIENCE

Cefalo AS

Dhaka, Bd

Software Engineer

Jul. 2022 – Present

- Designed and implemented **microservices architecture** using **Azure Functions** and **Service Bus** to enable event-driven communication between microservices. detailed specifications with clear project deliverables and timelines to meet strict deadlines.
- Led **Generative AI** based projects leveraging frameworks such as **Llamacpp** and **llamaindex**, and utilizing state-of-the-art large language models like **Whisper**, **OpenAI** and **Mistral** etc.
- Configured and managed **Redis Cache**, **Azure Blob Storage** to improve the performance and scalability of the software system
- Configured and managed **Azure API Gateway** to manage and secure API access and provide analytics on API usage, improving the security and usability of the software system.
- Developed and maintained **CI/CD** pipelines using **Azure DevOps**, reducing deployment time and ensuring the availability and reliability of the software system.
- Architected high-performance data systems utilizing **Cosmos DB**, **MSSQL**, and **Entity Framework**
- Created and maintained technical documentation, user guides, and release notes, improving communication and knowledge sharing within the team and client.

Brainstation23 Ltd

Dhaka, Bd

Software Engineer

Jan. 2022 – Jun. 2022

- Worked closely with Project Managers and other developers to define parameters and plan detailed specifications with clear project deliverables and timelines to meet strict deadlines.
- Developed back-end Web services in **ASP.NET core** with **microservices** architectures.
- Developed reactive web application with **Rx.NET** and **Blazor**
- Worked with the latest cutting-edge technologies like **Docker**, **Kubernetes**, **GitHub-Actions** etc

Associate Software Engineer II

Nov. 2020 - Dec. 2021

- Designed client-side code with **Angular**, **Rxjs**, specifically known as **reactive web app**
- Collaborated in integrating diverse stack web UI applications featuring **web components** from React, Angular etc.
- Implemented real-time communication and data transmission through **SignalR** and **socket programming**

Dynamic Solvers Bangladesh Ltd

Dhaka, Bd

Junior Software Engineer

Nov. 2019 – Jun 2020

- Developed high-performance API with **.Net Core**
- Developed Windows and Linux **worker services**
- Contributed to a map based mobile application in the Flutter
- Introduced and implemented a successful DevOps pipeline for the first time, resulting in a significant reduction in deployment failures, bugs, and overall deployment time.

PROJECTS

Meetsum | *Python, NextJS, Runpod, Docker, CosmosDB, Llamacpp, Whisperx, Mistral-7b* Jan 2024 – Present

- **Led GenAI** project development, overseeing **task management**, ensuring timely delivery, and coordinating efforts across the development team.
- Developed advanced **transcription** and **summarization** features using fine-tuned large language models such as OpenAI's **Whisper** and **Mistral-7B**.
- Implemented **full-stack** development, developing audio recording features with **RecordRTC** and utilizing **Next.js** for front-end development to create a seamless user interface that works with any meeting platform.
- Integrated **Azure Blob Storage** for efficient handling and storage of large audio datasets.
- Used **Llamacpp** to serve and query **LLM** efficiently, successfully serving **quantized** models to increase GPU memory efficiency while maintaining relevant results.
- Optimized **scalability** and **performance** through **serverless architecture** using **Runpod** and **Docker**.

Jengax | .NET Core, Azure Function, CosmosDB, Redis, Azure Service Bus

Jul 2022 – Dec 2023

- Contributed to develop subscription-based microservice API with **Azure APIM**, **Azure Function**, **Azure Service Bus** and **Azure Active Directory**
- Contributed to apply rate limit in the current system synchronized with third party systems
- Developed token bucket using semaphore to avoid duplicate auth request to external system
- Developed **CI/CD** pipeline with **Azure Devops** and **Powershell** to automate the deployment in dev,uat,test and prod environment
- Contributed to develop **Iaac** for the project with help of **Bicep**
- Developed and designed efficient database containers, aligned with intricate business logic, to optimize the **SAAS** application's performance and scalability through **sharding**.
- Developed notification services to notify important messages through **webhooks** and socket URL with **SignalR**
- link: <https://www.jengax.com/>

Informatiq | .Net Core, Angular, RxJS, Docker, Azure Devops

Nov 2020 – Jun 2022

- Contributed to development of microservice-based api using **.NET Core**
- Designed and developed reactive front-end application with **Angular**, **RxJS** and **Blazor**
- Implemented continuous delivery using **Azure Devops** to deploy the system upon new release
- Collaborated closely with clients to efficiently manage and resolve new tasks in Azure DevOps **Kanban** board, ensuring seamless workflow and timely resolution of issues.
- link: <https://informatiq.no/>

TECHNICAL SKILLS

Languages: C#, TypeScript, Javascript, MSSQL, Powershell, Python, Bicep

Frameworks: Asp.net Core, .Net Core, Angular, RxJS, Entity Framework, SignalR, XUnit

DevOps Tools: Git, Docker, TravisCI, Github Actions, Azure Devops

Database: MSSQL, CosmosDB, Redis

AI: OpenAI API, HuggingFace Transformers, Llamacpp, LlamaIndex, PEFT, RAG, Pandas, Pytorch, Generative AI

Cloud: Azure, AWS, Kubernetes

EDUCATION

Daffodil International University

Dhaka, BD

Bachelor of Science in Computer Science & Engineering

Jan. 2016 – Jan 2020

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

Dhaka, BD

available at <https://www.credly.com/badges/540a0fb3-a730-484d-92d6-702ecf55f9cc>

Jan. 15,2022

Generative AI with Large Language Models by DeepLearning.AI

Dhaka, BD

available at <https://www.coursera.org/account/accomplishments/verify/7F6YGZBG8AY5>

Feb. 28,2024