

Shahin Mohamed

Software Development Engineer

✉ shahin00717@gmail.com

🌐 LinkedIn

🐙 Github

🌐 Website

☎ 8086741320

PROJECTS

🔗 Communication microservice

- Developed a communication microservice in .NET Core Web API to send transactional SMS messages using the Twilio SMS API, triggered via HTTP endpoint calls.
- Implemented RabbitMQ as a message broker to decouple message publishing (API request) from consumption (SMS sending), ensuring high availability and message durability.
- Created a hosted BackgroundService to act as a persistent consumer, listening to RabbitMQ queues and handling outbound SMS delivery through Twilio's API.
- Implemented multi-tenant authentication and authorization using OAuth 2.0, enabling secure, isolated access for different clients or organizations.
- Packaged the service as a Docker container for seamless deployment across environments, supporting CI/CD pipelines.
- Integrated OpenTelemetry for distributed tracing and metrics collection, enabling in-depth observability.

🔗 Textract project

- Designed and implemented a robust RESTful API in .NET Core to extract structured financial data from invoice and bill images, specifically CGST, SGST, and Total Amount.
- Utilized Amazon Textract for intelligent document processing, enabling OCR-based data extraction from scanned or photographed documents.

Loadtest Automation tool

- Established a load test automation tool that schedules JMeter scripts to run against non-production environments, featuring resource management and real-time test result sharing via chat.
- Built using Razor Pages and Hangfire, the backend leverages Azure libraries to efficiently scale resources and ensure optimal conditions before each test.

Data-qa id generator tool

- Developed a console application that serves as a data-qa ID generator using HtmlAgilityPack to integrate data-qa IDs into HTML elements, significantly improving traceability and data management practices.

🔗 AI-Chatbot

- A retrieval-based chatbot which focuses on casual interaction with the user and using textual conversation to predict user's emotion.
- Deep learning methods such as ANN for chatbot and LSTM for detecting emotion in textual data. Frontend created using HTML, CSS and javascript.

EXPERIENCE

CareStack (Good Methods Software Solutions)

Automation Engineer

Trivandrum, India

Aug 2021 - Dec 2024

- Specialized in API automation using xUnit, maintaining the framework and streamlining test automation.
- Actively participated in performance testing during regression phases, executing product load tests and ensuring informed sign-offs through rigorous validation processes using jmeter.
- Collaborated with the database team to resolve parameter sniffing issue in Database, stabilizing performance and enhancing overall system reliability.
- Contributed to UI testing with Playwright by automating manual production sanity, significantly reducing QA time and enhancing efficiency.
- Mentored new team members in automation best practices, accelerating onboarding and fostering collaboration within the team.

EDUCATION

Bachelor of Technology in Computer Science

GPA: 7.89

Sreepathy Institute of Management And Technology

Aug 2017 to Jul 2021

SKILLS

- Programming Languages : C#, Typescript, Python, C++
- Database : MsSql, MySQL
- Framework : .NET, Razor, Xunit, Playwright
- Others : Docker, Jmeter, Pact.io, CI/CD, Azure, Jupyter, Git