

Agha Saad Fraz

Email: agha.saad04@gmail.com Phone: +923134818765

PROFESSIONAL SUMMARY

Dynamic DevOps Engineer with proven expertise in CI/CD pipeline development, Infrastructure as Code (IaC), and microservices deployment in Azure DevOps environments. Specializes in automating and optimizing cloud operations using Terraform, Azure Resource Manager (ARM), and Kubernetes with Helm charts. Adept in integrating Azure resources and securing cloud infrastructures, I bring a strong foundation in software engineering from the National University of Sciences and Technology. My work is characterized by a commitment to continuous learning, solution architecture, and a collaborative approach to achieving project goals.

EDUCATION

- National University of Sciences and Technology – NUST

Aug 2014 – June 2018
- Bachelors of Engineering in Software Engineering | **CGPA 3.44/4**
- Courses:** Computer Programming, OOP, Data Structures, Database Systems, Computer Networks, Network Security, Machine Learning, Digital Image Processing, Computer Vision

EXPERIENCE

1. Flow Stream | Lead Cloud Engineer

Jan 2025 – Present

 - Led cloud and DevOps strategy on Azure, owning architecture, CI/CD standards, and Kubernetes platform across multiple teams.
 - Managed and mentored cloud engineers, handling task assignments, sprint planning, code reviews, and delivery oversight.
 - Defined and enforced DevOps, security, and infrastructure compliance aligned with regulatory requirements, supporting company certification from the Brazilian government.
 - Designed and shared improved cloud architecture, driving scalability, reliability, and cost optimization initiatives.
 - Established organization-wide monitoring and incident response using DataDog, OpsGenie, Jira, and Slack, improving system availability and reducing MTTR.
 - Acted as a primary technical stakeholder for cross-team coordination and cloud decision-making.
2. Flow Stream | Senior Cloud Engineer

Oct 2022 – Dec 2024

 - Engineered CI/CD pipelines in Azure DevOps, enhancing deployment processes and operational efficiency.
 - Orchestrated IaC using Terraform for provisioning Azure infrastructure, ensuring scalable and reliable cloud resources.
 - Implemented microservices deployment on Kubernetes, utilizing Helm for streamlined application management across environments.
 - Fostered security best practices, contributing to a robust Azure infrastructure guarded by comprehensive monitoring and alerting system based on DataDog, OpsGenie, Jira and Slack.
3. ExpressLRS | Google Season of Docs | Technical writer | Part time

May 2022 – Nov 2022

□ Revamped and enhanced user documentation for ExpressLRS

 - Reviewed and updated FAQ and Troubleshooting guides
 - Conducted a survey to gather feedback on the ExpressLRS documentation
4. Visionet Systems | CloudOps Engineer | Full time

July 2018 – Oct 2022

 - Developed and deployed Continuous Integration/ Continuous Delivery pipelines (CI/ CD) using Azure DevOps
 - Implemented MLOps pipeline using Azure DevOps and ML Workspace
 - Worked with Infrastructure as Code Terraform, Azure Resource Manager (ARM) and Ansible for configuration management.
 - Deployed microservices on Kubernetes using Helm charts
 - Integrated Azure Resources (SonarQube, KV, APIM, Azure Storage, Azure AD)
 - Deployed Function Apps, Web Apps and Web Jobs
 - Implemented MLOps pipeline using Azure DevOps and ML Workspace □ Worked with Configuration management tools Ansible.
 - Worked on monitoring tools like azure monitor, App Insights, Grafana, Prometheus and ELK stack
 - Followed the practices of GitOps, Release management and Progressive delivery in Azure DevOps
 - Actively worked on Docker, Helm and deploying and maintaining Micro services in Dev & QA and UAT environment.
 - Built/Maintained Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on Azure.
 - Proposed efficient solutions for the project as a Solution Architect
 - Liaison between development and operations by applying Software Engineering practices
5. Arduino | Google Season of Docs | Technical writer

Aug 2019 – Dec 2019

 - Created detailed documentation for Arduino libraries and third-party libraries,
 - Proposed a new template for technical documentation, which was adopted by the Arduino community.
6. Canadian Fracturing Limited | Intern | Web developer - Data Scientist

June 2018 – July 2018

□ Developed a website for Odin Analytics, resulting in a 50% increase in user engagement □ Applied Machine Learning and Natural Language Processing to improve data analysis.

7. TUKL, NUST | Research Intern

May 2017 – Aug 2017

 - Implemented Optical Character Recognition using Google Tesseract
 - Developed object detection using YOLO v3
 - Marry TTS
8. IAEC, NUST | Team Lead | Research Assistant

May 2016 – Oct 2016

 - Researched and developed website of CS unplugged
 - Applied Machine learning algorithms (Supervised & Unsupervised)
9. GSM Lab, NUST | Research Intern

July 2015 – Jan 2016

 - Researched on Internet of Things (Smart Waste Management, Alzheimer)
10. CRIMSON Lab, NUST | Research Intern

June 2015 – Sep 2015

 - Learned Unity Game Engine for Game Development
 - 3D Modeling using Blender
 - Documented the Project

PROJECTS

- EDI service company**

I have developed a cloud-based solution for multiple partners, leveraging Azure DevOps, Docker, Git, and various other technologies. As part of my role, I built Azure DevOps pipelines and infrastructure to support the project, utilizing tools such as Azure Monitor Insights and Azure Key Vault. Additionally, I have written comprehensive user and developer guides for the project to ensure that stakeholders can effectively utilize and understand the solution. Other technologies used include Grafana, SonarQube, PowerShell scripting, ARM templates, containerization, VMs, ACR, VNets, Kubernetes, APIM, OpenAS2, and Helm charts. By utilizing a range of cutting-edge technologies and my expertise in technical writing, I was able to develop a robust solution and provide clear and concise documentation to support its implementation and maintenance.
- Insurance company**

I provided Azure DevOps pipelines and infrastructure for an insurance company's .NET application and Angular services, using a variety of cutting-edge technologies. To support the project's success, I created both user and developer guides, ensuring that all stakeholders could effectively utilize and understand the solution. The project leveraged Kubernetes, Helm, Azure DevOps, Docker, Docker Registry, and Git, with additional support from Azure Kubernetes Service, ARM templates, Azure Monitor Insights, Azure Key Vault, Secrets, Grafana, Prometheus, PowerShell scripting, and DataOps. By leveraging a range of advanced tools and my technical writing expertise, I was able to support the development of a robust solution and provide clear and concise documentation to support its implementation and maintenance.
- Taxfiler Company**

I developed an Azure-based solution that included DevOps pipelines and infrastructure for a company, utilizing a range of cuttingedge technologies. As part of the project, I wrote a comprehensive developer guide to ensure effective utilization and understanding of the solution. The project utilized Azure DevOps, ARM templates, containerization, VMs, ACR, VNets, Kubernetes, Helm charts, and Secrets, with additional support from Grafana, ELK stack, and PowerShell scripting. By leveraging advanced technologies and my expertise in technical writing, I was able to develop a robust solution and provide clear and concise documentation to support its implementation and maintenance.
- Healthcare Insurance Group**

I developed a cloud-based solution for a client, leveraging a range of advanced technologies to ensure a robust and scalable solution. Additionally, I wrote a developer guide to support effective utilization and understanding of the solution. The project utilized Azure DevOps, ARM templates, containerization, VMs, ACR, APIM, VNets, Kubernetes, and Helm charts. By leveraging these cutting-edge tools and my expertise in technical writing, I was able to develop a solution that met the client's needs and provide clear and concise documentation to support its implementation and maintenance.
- Documentation of ExpressLRS**

As a technical writer for ExpressLRS in GSoD'22, I have been instrumental in creating user documentation, FAQs, and troubleshooting guides that are comprehensive, informative, and user-friendly. To ensure that the documentation accurately addressed the user's needs and concerns, I conducted surveys, collected data from forums, Facebook groups, and Discord channels. By leveraging these diverse sources of information, I was able to create documentation that meets the needs of users of all experience levels. My commitment to contributing to the success of ExpressLRS drives me to provide documentation that empowers users to use the software effectively and efficiently.
- Documentation of Arduino's and Third party libraries**

As a technical writer for Arduino in GSoD'19, I had the opportunity to document Arduino libraries and third-party libraries. To ensure consistency and clarity in the documentation, I proposed a template and adhered to it throughout the GSoD period. The documentation was written in markdown and involved the use of Git and GitHub.
- Eyenovative - Intelligent Solution for Visually Impaired**

I have created an open-source Android application designed to assist visually impaired individuals with their daily activities. The project is currently available on GitHub, and I have also written technical documentation to provide users with a clear understanding of how the application works and how to use it effectively. By utilizing my technical writing skills, I have ensured that the documentation is concise, comprehensive, and easy to follow, providing users with the information they need to make the most of the application.
- Real-time Modelling of TCP & Research Paper**

I have authored a research paper on the real-time modeling of TCP networks, focusing on its features and functionality in this context. By conducting in-depth research and analysis, I was able to provide valuable insights into how TCP networks can be modeled in real-time, and the benefits of doing so. The paper provides a detailed explanation of the working principles behind realtime TCP network modeling and highlights its key features.

- **Real-time Modelling of Microwave Oven & Research Paper**

I have also authored a research paper on the real-time modeling of microwave ovens, focusing on its features and functionality in this context. Through thorough research and analysis, I was able to provide valuable insights into how microwave ovens can be modeled in real-time, and the benefits of doing so. The paper provides a detailed explanation of the working principles behind realtime microwave oven modeling and highlights its key features

- **Sales forecasting of a Clothing brand**

I developed a cloud-based solution for a local client that utilized sales forecasting to enhance their apparel business. To support effective visualization and analysis of the data, we integrated the solution with the Power BI dashboard. By leveraging advanced cloud-based technologies and expertise in data analysis, we were able to develop a robust solution that met the client's needs and provided clear insights into their business performance.

- **Recommendation System**

I developed a cloud-based recommender system for apparel that utilized a hybrid approach combining content-based and collaborative filtering. This approach allowed for a more comprehensive analysis of the client's data and provided more accurate recommendations for their customers. By leveraging advanced cloud-based technologies and expertise in recommender systems, we were able to develop a robust solution that provided valuable insights for the client's business and enhanced the customer experience.

TECHNICAL SKILLS _____

- **Technical Writing:** High quality software documentation, User guides for complex systems, End-user documentation
- **CloudOps:** Docker, Docker Registry, Kubernetes, ACR, Azure DevOps, Jenkins, IAC, APIM, MLOps, Monitoring Dashboards, IAC. Version Control, Git
- **Scripting:** Python, bash, Powershell
- **Web development:** HTML5, CSS3, Bootstrap4, JavaScript, JQuery, AJAX, Angular JS, PHP
- **Databases system:** MySQL, PostgreSQL, SQLite, MongoDB
- **Tools:** Sphinx, Read the Docs, Confluence, Jira, GitHub, Google Colab, Python IDLE, NetBeans, Eclipse, Visual Studio Code, Sublime Text, FileZilla Client, Workbench, Visual Studio, XAMPP

ACHIEVEMENTS _____

- Certified Kubernetes Administrator - CKA
- Microsoft Azure Solution Architect (AZ-305)
- Certified Azure Administrator (AZ-104)
- Certified Azure DevOps (AZ-400)
- GSoD’22 Participant
- GSoD’19 Participant
- Certified Microsoft Office Specialist MS Word, PowerPoint, MS Excel, MS Access ☐ Microsoft Imagine Cup National Finalist

EXTRACURRICULAR _____

- ☐ Enjoys playing badminton and video games, going to the gym, and jogging