**Intro**

Good morning/evening/afternoon, and thank you for giving me the opportunity to introduce myself. I am Shaikh Mohammad Saad; I am a final-year IT student at GECA and I did my schooling from Aurangabad. During my academic career, I have built strong foundation in data structures and cloud technologies like AWS, I am good with programming lang such as C++, and Python along databases such as MySQL. Throughout my academic journey, I've worked on multiple real-world projects. Some of them were collaborative efforts, while many others—listed in my resume—are individual projects I developed independently. I am eager to apply my skills and continue growing in a dynamic and innovative environment.

**Hobbies:**

I really enjoy watching documentaries and romantic drama series; they offer a great mix of entertainment and the teach us the Consequences of an event. I used to be quite shy and more of an indoor person, which eventually made me feel a bit lazy and disconnected. But a professional must not live like such, so I started going to the gym regularly and making an effort to start my day earlier.

**Why Software Development, Why IT as a career**

Since childhood, I was very interested in hardware stuff, when I was in 5th std, my dad bought a pc for me, and that’s how the Hardwares were introduced to me, but over time, I realized that the real magic of a computer isn’t just in its hardware, but in the software that controls it. So that’s how my software journey began.

**What are my technical skills**

My key technical skills include programming in C++, where I have worked on data structures and algorithms. I'm also proficient in Python and have used several libraries for development. And Currently I am learning Cloud, specifically AWS. And also, I am familiar with few DevOps tools

**How have you applied data structures and algorithms in your projects?**

So, I have mostly used Searching and Sorting algorithms in the projects, like in my first project we have to fetch the data, so I have to use optimized search algorithms

**DonorLink: Blood Donor and Recipient Platform**

**DonorLink** is a cloud-based application, where the data of Donors will be stored, in the database and the necessary recipients can easily get the info of the available donors in their area, the output table will be in sorted order by distance. The donors have to register themselves with the application with necessary details and acknowledgements.

**technology stack you used for DonorLink?**

This project was entirely built on AWS. The UI was developed using the Streamlit framework, a lightweight Python web development tool. SQLITE was used to store the donor data, and the project was hosted on an EC2 Linux instance. A unique feature of this project is that during donor registration, donors can select their location on a map. Recipients can then view all donors in the city, giving them a clear idea of donor locations, making it easier to find nearby donors.

**What challenges did you face while implementing the matching algorithm?**

One challenge was handling duplicates. I overcame this by using UNIQUE constraint in SQL, and another real problem was fake Data, like phone number, so I built an OTP based registration, where we generate a 5-digit code and sends it to the registering person using API of Bravo services

**CLOUD FILE STORAGE**

**Q: Can you give an overview of your cloud file storage application?**

The cloud file storage application is built for fulfilling the storage need, just like the Google Drive but moreover a personal drive.It allows users to upload, store, retrieve, and manage files through a web interface developed with Python web Framework and the Boto3 library. It is designed in a way that users can easily log in from anywhere and can access and share the files.

**Q: What was the tech stack used?**

There are two versions of this project. In one version, me and my team has used a full-stack approach with Flask for the backend and HTML/CSS for the frontend. In the second version, which I developed independently, I used the Streamlit framework as the frontend, AWS EC2 as the server, and AWS S3 for file storage. I also integrated the Bravo Mail API to send file links directly over the application to users via email.

**Q: What was the primary objective behind developing this cloud file storage system?**

The primary objective was to address the pricing models like Google Drive . Google drive charges for the certain storage with fixed amount / month, even if we don’t utilize it fully, but in our appln we will only charge them for the storage they’re using. AWS S3 per GB per mnth costs 1.7 rs, while g drive costs 4.5 rs INR

**Q: How did you design the overall architecture of the cloud storage system?**

Basically, the UI consist of the login page, and after successful login, user can see the files they have stored, there will be an upload button, that will let users to upload file, and each file will have 3 options, info, delete and send. The appln is hosted on EC2 Linux machine, while performing CRUD oprn the EC2 will interact with the S3 bucket via IAM policy or permission. And the metadata will be stored in MySQL. (back of resume)

**Toolbox:** Toolbox is an application designed to assist students and professionals with their daily activities by integrating day to day technology tools. This platform aims to boost the academic tasks and enhance productivity by offering different features.

Such as temporary storage : it’s a convenient way to store and move our files, without using our private credentials, like Gmail.

Text summarization: utilizes the NLP capabilities to generate the concise summary of long texts, **Extractive Summarization:** this method selects key sentences or phrases directly from the original text to create a summary.

**Steps:**  1- preprocessing of data( cleaning ) , 2 – feature extraction using TextRank algorithm

3- model feeding, 4 – output generation

**Python Compiler**: Offers an integrated environment where anyone can compile and execute Python code, it uses the underlying terminal of host machine to execute codes, and display the result using subprocess.run(python, file name);

**FILE GPT with CLAUDE Anthropic API**: This feature leverages the Anthropic Claude AI API, similar to ChatGPT, but tailored specifically to provide deep insights and contextual analysis from uploaded files. Users can upload documents and specify the type of task or analysis they want to perform, such as summarizing the content, extracting key points, or generating detailed insights. The Claude AI API processes the text within these files and returns concise, contextually relevant outputs that help users quickly understand and make use of their data.

Data is sent using HTTP POST request to the server of AI, and the output is sent back to us in JSON format

**Tech stack:** different APIs such as Claude API, email API, convert API, libraries, such as Google Translation Library, then we used NLP, AWS EC2 and S3

**NON-TECH QUES**

**Where do you see yourself in 5 years?**

In 5 years, I see myself as an AI Cloud Engineer, expert in building and managing cloud infrastructures that support advanced AI applications. . I aim to specialize in integrating AI with cloud platforms like AWS, creating scalable and intelligent solutions. And also, I see myself taking on leadership roles where I can mentor my Team, and surely, with the right efforts we’ll create a difference

**What are your strengths and weaknesses?**

**strengths**

One of my key strengths is my ability to quickly learn and adopt to new technologies. For instance, I’ve successfully picked up cloud technology, and I am doing very well in it, I understand cloud logically, also my problem-solving skills are strong, I enjoy solving the tasks, which other find difficult,

another strength is my dedication to teamwork, I’ve often helped my mates in technical issues

**weaknesses:**

One of my weaknesses is that I sometimes find it challenging to trust my teammates fully, as I want perfection in every task. However, I’m actively working on this by learning to understand the different perspectives people bring for their work. Another weakness is that I used to procrastinate when tasks don't have clear deadlines. I’ve recognized this, and I’m working on improving by setting personal deadlines.

**Why should we hire you?**

As a Cloud learner, I’m passionate about working with technologies that are shaping the future. I believe cloud computing is a valuable skill that helps in growth of a industry, and I’m actively learning how to leverage platforms like AWS. I’m particularly focusing in integrating emerging technologies like Generative AI into cloud solutions, which I plan to explore further on AWS. My enthusiasm for learning, combined with my problem-solving skills, makes me a strong fit for your team. I’m confident I can contribute to TCS's innovative projects while continuously growing my expertise in cloud and AI.

**Describe a time you worked in a team. What role did you play?**

"Recently, I worked on a college project with my teammates where we developed an application to store information about blood donors., My primary role was to handle the backend by efficiently storing data in the database, I was also responsible for integrating map support into the application, meanwhile one of my teammates focused on designing the user interface to make the app user-friendly, while another handled the documentation.

**What motivates you?**

What motivates me is how people have seen me as responsible and a 'techy guy' since childhood. This encourages me to do my best in everything I do. I also want to stand out among my peers by improving my skills and making a positive impact. and I feel happy when people remember me for my contributions.

**How do you handle stress or pressure?**

"I try to stay organized from the beginning to avoid panicking later. When stressful situations arise, I focus on completing smaller tasks, which helps me manage the bigger challenges. And concentrating on one task at a time helps reduce chances of errors, I believe that challenges are great opportunities to learn and grow. However, when deadlines are involved, I make sure to stay calm and maintain my focus throughout the process

**What is your biggest achievement?**

My biggest achievement is the confidence and pride I have in myself, knowing that I am capable of tackling difficult tasks, whether it’s learning new skills or developing projects. This mindset keeps me motivated to take on challenges and grow

**How do you prioritize your tasks and manage time?**

I manage my tasks based on their deadlines and prioritize them accordingly, for task with deadlines, I creates a plan for all the days falling between and typically divide my tasks into three categories each day, for example I was preparing for TCS NQT, so I planned the month accordingly, every day I used to cover 2 aptitude topics and used to solve programming questions

**What are your hobbies or interests outside of work?**

Outside of work, I love listening to music as it keeps me active . Previously, my interests were limited to my comfort zone, which made me feel a bit lazy and introverted. I realized that as a professional I must be social and Active, so recently I started working on my physical health, and exploring the outdoor activities.