Saumitra Joshi

Software Development Engineer | saumitra1joshi@gmail.com | *(*+91) 7042334712 | Bangalore, Karnataka

Linkedin | **Github** | **Portfolio** | **Medium**

Skills

Programming Languages: Python**,** Golang, Java, JavaScript, TypeScript, C/C++, SQL, Powershell, HTML, CSS

Technologies & Tools: Angular, React, Spring, Node.js, Flask, Docker, Kubernetes, Fast API, MySQL, NoSQL, Grafana, Websocket, LangGraph, Langchain, Terraform, ARM Templates, Azure SDK, Boto3, Virtual Machines, Virtual Networks, CRON

Cloud: Azure, AWS, Google Cloud

Domains: Full Stack Development, Cloud Engineering, Microservices Architecture, DevOps, Scalable System Design, Software Architecture and Design Patterns, Object Oriented Programming, Gen-AI Development

Work Experience

Brillio | *Software Development Engineer (CTO Department)* | *Bangalore*   **Jun 2022 - Present**

• Engineered robust **FastAPI APIs** for cost and inventory management using **Azure SDK and AWS Boto3** for an in-house Cloud Finops Solution used by several Fortune 1000 clients.

• Implemented nested **multi-threading** in Wastage Tracking APIs, reducing response time from 4 minutes to under 10 seconds.

• Developed time-triggered **CRON jobs** using **Azure Functions** and **Azure Virtual Machines** with automatic shutdown upon completion, reducing operational expenses by $2000 per month.

• Built a multi-agent Gen-AI solution using **LangGraph**, automating the end-to-end process of analytics generation, including SQL querying, data pre-processing, and visualization, thereby reducing insight generation time by 90%.

• Developed and maintained an inventory management **Angular** dashboard connected to a custom SQL database for a client.

• Designed & integrated secure authentication mechanisms, including **MSAL, Google OAuth & JWT**, to safeguard user access.

• Configured CI/CD pipelines using Azure Devops for resource migration and multiple **Web Apps, Functions, Logic Apps and Virtual Machine** deployments.

• Implemented real-time **text event streaming** and **websocket** APIs in a **Flask** server increasing user retention by 40%.

London Strategy and Consulting Group | *Data Science Intern* | *Remote*   **Oct 2020 - Feb 2021**

• Engineered data preprocessing pipelines operating on 140+ GB raw nested JSON data by leveraging **AWS EMR**.

• Implemented multiple APIs with comprehensive **unit testing** to compute various metrics, KPIs, and generate quarterly reports on Credit Card Application data.

Projects

Content Analyzer | Full Stack, Gen AI | **[Link]**   **Jul 2023 - Aug 2023**

• Designed an end-to-end solution with an **Angular** chatbot and a serverless backend for optimized, scalable request handling.

• Created a processing system that cross-references YouTubers' claims with SEBI's guidelines in a **Vectorized DB and GPT**.

• Implemented audio to text transcription and claim validity scoring system using **Langchain and GPT-4**.

Nutrify | Full Stack | **[Link]**   **Jun 2022 - Aug 2022**

• Implemented a Spring backend with SSO capability and real-time consultations using **WebSockets**, hosted on **AWS EC2**.

• Configured a **MySQL** database and developed **Java Backend Servlets** to integrate with the database using **JDBC**.

Education

• **SRM University, Chennai** | *BTech* | *Computer Science Engineering* | *CGPA : 9.47/10*   **2018-2022**
• **Amity International School, Gurgaon** | *Class 12 : 93.2%* | *Class 10 : 10 CGPA*   **2016-2018**

Certifications

• Google Cloud Associate Cloud Engineer (ACE)   • Azure Fundamentals(AZ-900)   • AWS Cloud Practitioner

Achievements

• **Employee Of the Quarter, Employee of the Month, Value Champion, Group Excellence Award** by Brillio

• **2nd Position** in Microsoft Gen AI Hackathon - 2024

• **Guest Speaker at NIT Trichy** on Azure Digital Twins and AWS IOT Twin Maker - 2023