SAUMITRA JOSHI

Software Development Engineer
saumitra1joshi1@gmail.com | +91 7042334712 | Bangalore, Karnataka
Linkedin | Portfolio | GitHub

EDUCATION

SRM Institute of Science & Technology Chennai,Tamil Nadu
BTech - Computer Science Engineering with Specialization in Big Data Analytics June 2018 - May 2022
CGPA: 9.47

Amity International School, Gurgaon Gurgaon, Haryana
Class 12th HSC - (CBSE) March 2017 - March 2018
Percentage: 93.2%

Amity International School, Gurgaon Gurgaon, Haryana
Class 10th SSC - (CBSE) March 2015 - March 2016
CGPA: 10

EXPERIENCE

Brillio | Software Development Engineer | CTO Department Bengaluru | Jun 2022 - Present
- Part of Cloud Technology Team. Built and managed scalable, reliable data engineering pipeline that archived optimal performance by utilizing various cloud platforms and their services efficiently.
- Delivered a seamless end-to-end supply chain management solution for major cosmetics and warehousing companies by integrating digital twin, custom made angular application with source systems.
- Worked on SQL automation/inquiry tool leveraging Gen-AI for the finance department and an in-house FinOps Solution.
- Conducted a Workshop on Azure Digital Twins and AWS IOT Twinmaker representing the company @NIT Trichy

London Strategy & Consulting Group | Internship Virtual | Oct 2020 - Feb 2021
- Worked as a Data Science Engineer Consultant Intern and developed machine learning models for SME-Lending Fraud Detection and Credit Card Approvals for non-existent user using SVMs and CNNs.
- Developed the web app for SME-Lending using React.

Think Digital | Committe Member Chennai | Jan 2020 - Feb 2021
- Worked on software development projects and contributed in organising web development events, using mailchimp to send out emails, setting up forms for registration, and helping other students with their queries regarding web development.

SRM MIC (Machine Intelligence Community) | Committe Member Chennai | Oct 2018 - Jan 2020
- Worked in a collaborative environment on various supervised machine learning projects.
- Helped organize multiple ML/AI events and mentored juniors, answered their queries and helped them navigate the domain.

SKILLS

Programming Languages:	C, C++, Python, Java, Javascript, Typescript, SQL, HTML, CSS
Libraries/Frameworks:	Angular, Spring, OpenAI, Langchain, Terraform, ARM Templates, Boto3, Azure SDK, Nebular, Grafana, PyJWT, Scikit Learn, MatPlolib, TenserFlow, Numpy & Pandas
Tools / Platforms:	Azure, AWS, GCP, Github, Google Colab, Kaggle, Visual Studio, MobaXterm
Databases:	Oracle, MySQL, Apache Spark SQL, Azure SQL(MSSQL), MongoDB, Azure CosmosDB, Google BigQuery

PROJECTS / OPEN-SOURCE

Brillio | Digital Twin - Supply Chain Management and Simulation Solution
- Worked on multiple solutions using Azure Digital Twins for Supply Chain and Warehouse Management for major multinational cosmetics, tyres and cold storage companies.

- Developed an Angular application integrated with Azure Digital Twins with simulation configuration and application logic, Google Maps overview of supple chain, graphical and card based representation of KPIs.
- Designed and developed a Grafana dashboard for end to end visualisation.

Brillio | CTO Department Azure Account Migration
- Completed Azure Resources Migration for CTO department with reorganization of resources using Azure Devops, ARM Templates, Azure Resource Mover and Terraform.
- Developed Azure Devops Pipeline with powershell scripts using service principals for appropriate permission granting, AzCopy for blob migration using SAS Tokens.
- Configured Azure Devops pipeline using yaml scripts for Azure Function, Static Web App migration.

Brillio | Cloud Financial Operations Solution
- Led the development of real-time cost monitoring and inventory management APIs(Boto3 & Azure SDK) for cloud infrastructure across multiple accounts and hyperscalers, for an in-house FinOps Solution.
- Programmed CRON jobs using AWS Lambda, CloudWatch Alarm, SSM Agent, and EC2 for regular data retrieval from the cloud to ensure up-to-date insights, and developed a CRON job using an Azure Function and Azure Virtual Machine for fetching billing reports from the Azure Cost Management API and saving data to Azure SQL Server.
- Set up the architecture based on microservices using flask, contributing to a scalable and efficient solution for monitoring and managing cloud infrastructure costs.
- Engineered login flow, implementing JWT token for authentication.
- Established Azure SQL integration with a Flask Server Backend, developed Python scripts, and SQL queries to enable CRUD operations on the SQL Server.

Brillio | Financial Planning & Analysis Gen AI Tool
- Collaborated closely with the FPA (Financial Planning & Analysis) department to understand pain points, design solutions, and address automation requirements and expectations.
- Developed a GPT-3.5k-16k powered chatbot that automates SQL queries on the company's financial databases and generates outputs based on user queries.
- Designed and developed the UI/UX using Angular (Nebular Framework). Hosted the interface on Azure Static Web Apps and configured an Azure Devops Pipeline for CI/CD.
- Utilised FAISS, ChromaDB vectored databases, Langchain Agents and Tools to form optimal architecture for creating SQL queries, interpreting SQL response and formatting the final user response.
- Deployed the entire Flask server on Azure Function, reducing OpEx by 70% by eliminating the need for Azure App Service. Configured a feedback and analytics JSON dump mechanism to Azure Blob Storage.

Identifying Misleading Investment Claims | GFF 2023 SEBI Hackathon
- An end-to-end solution where the application interface is hosted on cloud instances and the backend leverages serverless architecture for optimized and scalable request handling. Users provide YouTube video or YouTube Shorts links.
- Post-processing, the claims asserted by YouTubers are cross-referenced with the Vectorized DB containing SEBI's comprehensive guidelines and documents from their website
- Implemented a user-friendly interface allowing input of video links to receive transparent insights and quoted sections

CERTIFICATIONS

- Google Associate Software Developer (ACE)
- Microsoft Certified:Azure Fundamentals(AZ-900)
- AWS Cloud Practitioner
- NPTEL Practical Machine Learning with Tensorflow

HONORS & AWARDS

- Top 5 Finalist - SEBI National Hackathon || Hack2Skill || TheProductFolks
- Brillian of the Month
- Group Excellene Award By Brillio
- Guest Speaker at NIT Trichy || Azure Digital Twins and AWS IOT Twin Maker || Pragyan Festival