

SUMMARY

5 years of experience in designing and implementing scalable, secure, and reliable systems across industries such as Aviation, FinTech, E-commerce, and Health Care. As a member of the Enterprise Architecture & Governance team and Change Advisory Board (CAB), responsible for defining processes and guardrails to ensure cloud applications meet security, performance, and cost-efficiency benchmarks. Proficient in fostering cross-functional collaboration and managing teams to deliver solutions aligned with organizational goals while ensuring smooth execution and adherence to enterprise standards.

EXPERIENCE

AIR INDIA | Lead Engineer - Enterprise Architecture & Governance

November 2023 - Present

As Lead Engineer in Enterprise Architecture & Governance, contributing to Air India's digital modernization. Implemented cloud-native solutions, AI automation, and cost optimization strategies that positioned Air India as a technology leader in the aviation industry. Led cross-functional teams through the historic Air India-Vistara merger, ensuring business continuity while implementing next-generation platform engineering frameworks that enhanced operational efficiency and customer experience across all business units.

Key Achievements:

- **Financial Impact:** Optimized **INR 1.5M+ annual cost savings** through strategic FinOps implementation, achieving consistent **15% quarter-over-quarter cost reduction** via resource optimization, right-sizing, and Reserved Instance strategies.
- **Customer Excellence:** Architected **AI.G**, a Gen-AI-powered customer service platform handling **5M+ monthly queries** with **97% success rate**, significantly enhancing customer satisfaction across **60M+ annual interactions**
- **Business Continuity:** Ensured **zero-downtime operations** during the Air India-Vistara merger, maintaining seamless service delivery for **40M+ passengers** through proactive monitoring and scalable infrastructure design
- **Agentic AI:** Developed **autonomous agents for VAPT and SRE operations** to automate vulnerability scanning, threat detection, and proactive application monitoring with intelligent issue summarization, **reducing manual efforts by 75%**
- **AI Platform Innovation:** Built and deployed **MCP servers** integrated with LLMs and **fine-tuned SLMs on domain-specific** knowledge bases to enhance AI capabilities for specialized organizational use cases, enabling intelligent decision-making across business units
- **DevOps Transformation:** Enhanced organizational DevOps posture by deploying self-hosted agents, automating CI/CD pipelines, and integrating SAST tools (GHAS, SonarQube, Trivy) to streamline secure development processes, achieving 90% faster deployment cycles
- **Platform Engineering:** Created fully automated Enterprise Platform Engineering Framework, enabling internal departments to provision compliant Azure infrastructure efficiently while maintaining organizational standards.

SALIENTMINDS TECHNOLOGIES | Technical Consultant

Jan 2023 – Nov 2023

Led DevOps, Data & AI teams in architecting and delivering enterprise-grade Azure solutions that accelerated product development cycles and optimized operational efficiency. Drove the development of innovative AI-powered products that transformed client engagement and business process automation, establishing SalientMinds as a competitive player in the AI-driven consulting space while ensuring cost-effective and scalable solution delivery.

➤ Architecting and Implementing Scalable AI-Enabled Interviewer

Engineered a sophisticated AI- powered interview application leveraging OpenAI models to deliver context-specific candidate assessments, featuring comprehensive end-to-end interview data capture and integrated speech recognition capabilities for natural interaction, while generating detailed post-conversation insights for thorough evaluation.

➤ Building a Product: Xnode – An AI-Enabled Product Manager

- Architected and implemented an innovative automated solution featuring bot-driven requirements collection and Azure OpenAI integration, enabling swift product deployment and intelligent business analysis through advanced transformer models.
- Engineered a comprehensive system infrastructure incorporating RAG methodology with Vector Database integration for precise response generation, while automating the complete source code and resource management lifecycle.
- Delivered enhanced global accessibility through speech recognition capabilities and cross-regional configuration, complemented by robust session management and real-time socket-based notifications for a seamless user experience.

BLAZECLAN TECHNOLOGIES | Cloud & Data Engineer

May 2022 – Jan 2023

Collaborating with technical teams to implement containerized microservices platforms. Designed a scalable analytical solution that processed millions of transactions while maintaining high availability and cost efficiency, contributing to Blazeclan's reputation as a trusted cloud transformation partner for enterprise clients.

Key Achievements:

- **Performance Optimization:** Designed a solution with Synapse Analytics and Delta Lake technology integration for achieving 50% faster data processing and 99.9% system uptime through
- **Scale Achievement:** Successfully **onboarded 30+ microservices to Azure Kubernetes** for e-commerce platforms, enabling seamless HTTP request handling for millions of transactions
- **Technical Innovation:** Solved a **comprehensive Datahub on Azure** with **automated ETL via Synapse Analytics** for seamless Salesforce integration. Designed **Spark-based processing for dimension/fact management** and delivered a **modern data warehouse with Delta Lake** enabling **CDC and time-travel capabilities**.

TATA CONSULTANCY SERVICES | Data & AI Developer

Jan 2021 – May 2022

Contributed to TCS's digital transformation initiatives by developing innovative MLOps solutions and automated cloud provisioning frameworks that enhanced operational efficiency and client delivery capabilities. Collaborated with pre-sales teams to showcase cutting-edge Data & AI capabilities, contributing to revenue generation while pioneering solutions that served thousands of daily users and established TCS as a leader in cloud automation.

Key Achievements:

- **Deployment Efficiency:** Achieved **80% faster model deployment** through end-to-end MLOps automation using Azure DevOps and comprehensive monitoring dashboards
- **Revenue Impact:** Developed AutoOps solution with **\$500K+ revenue potential**, automating Azure service provisioning based on client-specific requirements
- **User Scale:** Delivered solutions serving **10,000+ daily users** through robust Data & Analytics frameworks and automated workload deployment systems
- **MLOps as an Accelerator (In-House TCS Product):** Orchestrated end-to-end MLOps using Azure DevOps for deploying ML models with Power BI visualized metrics, while pioneering an automated Data Drift pipeline to trigger retraining when thresholds are exceeded. Created a comprehensive cost and model metrics dashboard, integrating MLOps with Responsible AI and Model Explainability to ensure transparency and interpretability.

TECHNICAL SKILLS

Cloud Platforms & Services:

- **Microsoft Azure:** Cognitive Services, Synapse Analytics, Data Factory, Purview, Databricks, App Services, OpenAI, Functions, Logic Apps, AKS, Azure ML, Azure Networking, Azure IAM
- **Amazon Web Services:** Organizations, VPC, EC2, S3, RDS, Lambda, EKS, CloudWatch, Cost Explorer

Programming & Development:

- **Languages:** Python, JavaScript, HTML/CSS, C, SQL
- **Frameworks:** FastAPI, Flask, Django, Bootstrap, Langchain, Langgraph, CrewAI
- **Databases:** MySQL, SQL Server, PostgreSQL, Cosmos DB, Mongo

Data & AI Technologies:

- **Big Data:** Spark, PySpark, HDFS, Delta Lake, Data Lake
- **AI/ML:** OpenAI LLM models, Azure ML, Cognitive Services, MLOps, Prompt Engineering, SLM & LLM Finetuning
- **Analytics:** Power BI, Power Apps, Power Automate

DevOps & Cloud Operations:

- **Containerization:** Docker, Kubernetes
- **CI/CD:** Azure DevOps, ArgoCD, GitHub Actions
- **Monitoring:** Azure Monitor, Log Analytics, Application Insights, SonarQube
- **Security:** GHAS, Trivy, SAST integration
- **FinOps:** Apptio, Azure Cost Management, AWS Cost Explorer

CERTIFICATIONS

- **Certified FinOps Practitioner** (July 2024)
- **Microsoft Certified (DP-420)**: Designing and Implementing Cloud Native Applications Using Cosmos DB (Aug 2022)
- **Microsoft Certified (DP-100)**: Designing and Implementing an Azure Data Science Solution (May 2022)
- **Microsoft Certified (AZ-204)**: Developing Solutions on Azure (Feb 2022)
- **Microsoft Certified (AI-102)**: Designing and Implementing an Azure AI Solution (Sept 2021)
- **Scrum Certified**: Scrum Fundamentals Certified by SCRUMstudy (July 2021)
- **Microsoft Certified (DP-201)**: Designing an Azure Data Solution (June 2021)
- **Microsoft Certified (DP-200)**: Implementing an Azure Data Solution (April 2021)
- **Microsoft Certified (AZ-900)**: Azure Fundamentals (Feb 2021)

ACHEIVEMENTS

- **AI Dream Team** - Recognized for revolutionizing cloud deployment automation
- **AI IMPACCT Champion** - Awarded for significant contributions to Platform Engineering
- **Air India High Flyer** - Honored for consistent performance and unwavering dedication
- **TCS Contextual Master** - Conferred for domain expertise and technical excellence
- **Innovation Leader** - Presented MLOps Accelerator at TCS Innovista 2021 (Finals Qualifier)
- **Microsoft Hackathon Mentor** - secured **2nd** by enabling the development of **future-ready applications using Azure services**.
- **Copyright Achievement** - Filed intellectual property for innovative MLOps solution.

EDUCATION

Bachelor of Technology in Computer Science & Engineering | July 2016 – September 2020
Chadalawada Ramanamma Engineering College, Tirupati, India | **CGPA: 8.09/10.0**