**SIDDHESH AMRALE | AI ML & Cloud Infrastructure Engineer | LLM Integration | ETL & DevOps**

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**SUMMARY**

**Azure-certified AI/Cloud Engineer with 5+ years of experience** delivering $400K+ annual savings, 60% latency reduction, and enterprise-scale GenAI automation. Specialized in **LLM integration, event-driven pipelines, and multi-cloud deployments (Azure, GCP, AWS)**. Proven track record in designing **secure, production-ready AI assistants and infrastructure** powering 800+ enterprise users, while leading cost-savings and AI adoption initiatives across teams.

**TECHNICAL SKILLS**

**AI/ML & Data:** Generative AI, RAG, LangChain, Hugging Face, Azure OpenAI, Databricks  
**Cloud & DevOps:** Azure, AWS, GCP, Docker, Kubernetes, Terraform, CI/CD  
**Programming & Frameworks:** Python, Go, Java, C#, JavaScript, Angular, React, .NET, Spring Boot, Express.js  
**Databases:** MySQL, PostgreSQL, Cosmos DB, Oracle, NoSQL

**EXPERIENCE**

**Azure Infrastructure & Cloud Full Stack Engineer**  
**Allegheny County Airport Authority – Pittsburgh, PA | Jan 2024 – Present**

* Reduced real-time ingestion latency 60% by architecting Azure Functions + Event Hub pipeline.
* Delivered $400K annual savings by replacing Data Factory pipelines with serverless architecture.
* Increased incident triage speed 40% via a Generative AI-powered anomaly detection and summarization assistant.
* Designed secure Azure infrastructure using VNet, Service Bus, Event Grid, Load Balancer.
* Built secure full-stack apps with Entra ID (MSAL) SSO, enabling seamless access for 800+ enterprise users.

**Software Engineer**  
**Freddie Mac – Remote | Sep 2022 – Nov 2023**

* Improved system uptime 30% through fault-tolerant architecture and failover logic.
* Led migration to Docker + GCP, improving deployment speed 35%.
* Enhanced microservice security with OAuth2, meeting compliance standards.

**Software Engineer**  
**Top Hat Software Technologies – Pune, India | Jan 2019 – Jul 2021**

* Scaled cross-platform media app to 10K+ monthly users with 1:1 video/audio calls.
* Boosted video rendering speed 50% via C++/FFMPEG optimization.
* Best mentor award at Top Hat for mentoring 15+ interns

**CERTIFICATIONS**

* [Microsoft Azure AI Engineer Associate (AI-104)](https://learn.microsoft.com/api/credentials/share/en-us/SiddheshAmrale-4796/EDA4C40E9F0219A6?sharingId=35158B22038BBCBE)
* [Microsoft Azure Developer Associate (AZ-204)](https://learn.microsoft.com/en-us/users/siddheshamrale-4796/credentials/deef9dcc1ae30bef)
* [Microsoft Azure Administrator Associate (AZ-104)](https://www.credly.com/earner/earned/badge/c0c52dda-1f32-49a4-9bf9-4bc5010e3bda)

**EDUCATION**

M.S. Computer Science – New Jersey Institute of Technology | Sep 2021 – May 2023