# Siddhesh Nitin Amrale

AI & Cloud Infrastructure Engineer | LLM Integration | ETL & DevOps | Azure • Databricks • GCP

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## SUMMARY

Versatile AI and Cloud Engineer with 4+ years of experience delivering LLM-integrated, cloud-native platforms across Azure, AWS, and GCP. Proven expertise in building real-time ingestion frameworks, ETL pipelines, and secure networked environments. Hands-on experience with LangChain, OpenAI, Azure OpenAI, Databricks, and KQL, enabling intelligent automation, retrieval-augmented generation (RAG), and AI observability. Adept at full-stack delivery using Go, Python, Java, React, and serverless architectures. Seek to lead intelligent infrastructure and platform engineering in AI-first companies.

## CORE SKILLS

AI/LLM Tools: LangChain, OpenAI APIs, Hugging Face, Azure OpenAI, Prompt Engineering, RAG Systems  
Cloud Platforms: Azure (Functions, Synapse, ADX, VNets, NAT Gateway), AWS (EC2, Lambda), Google Cloud (GCP)  
Dev & Infra: Databricks, Docker, Kubernetes, Terraform, Azure DevOps, Git, CI/CD, REST APIs  
Programming: Python, Go (Golang), Java, JavaScript, SQL, C#, C++  
Frameworks/Libraries: Spring Boot, .NET, Express, React, PrimeReact, Qt  
Data: KQL, MySQL, PostgreSQL, Cosmos DB, Oracle, SQL Server, ETL/ELT

## PROFESSIONAL EXPERIENCE

* Allegheny County Airport Authority – Pittsburgh, PA

AI & Cloud Full Stack Engineer | Jan 2024 – Present

Tech: Azure, React, C#, Python, KQL, Databricks, LangChain, OpenAI  
- Designed and led the development of a serverless ingestion framework using Azure Functions for real-time telemetry data.  
- Integrated LangChain + OpenAI for AI-based alerting and summarization.  
- Architected ETL workflows in Databricks.  
- Built network-secure Azure Function environments using VNets and NAT Gateway.  
- Developed full-stack apps with secure Azure Entra ID (MSAL) authentication.  
- Delivered AI-assisted automation to classify anomaly patterns and generate alert prioritization.

* Freddie Mac – Remote

Software Engineer | Sep 2022 – Nov 2023

Tech: Java, Spring Boot, OAuth2, Node.js, GCP, REST APIs  
- Developed microservices using Spring Security with OAuth2.  
- Reduced crash-related incidents by 30%.  
- Introduced OpenAI-assisted error classification tools internally.

* Top Hat Software Technologies – Pune, India

Software Engineer | Jan 2019 – Jul 2021

Tech: C++, Qt, FFMPEG, JUnit  
- Built high-throughput media generation pipelines using C++ and FFMPEG.  
- Designed cross-platform video/audio call application with Qt.  
- Created developer onboarding programs and served as technical mentor.

## CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate (AZ-204)  
- Microsoft Certified: Azure Administrator Associate (AZ-104)

## EDUCATION

Master of Science – Computer Science

New Jersey Institute of Technology (NJIT) | Sep 2021 – May 2023

Courses: Cloud Technologies, Data Mining, Web Development, Algorithms

Bachelor of Engineering – Computer Science

Pune University, India | Jun 2015 – May 2019