

SIDDHARTH SINGH

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PROFESSIONAL EXPERIENCE

Comcast

April 2023 - Present

Data Engineer III

Philadelphia, PA

- Configured VM's, Databases, ETL jobs and Security protocols on Comcast Cloud Platform to facilitate migration from AWS cloud to reduce enterprise costs by \$450k per year
- Deployed AWS Lambda micro-service for FCC CENA compliance notifications with built-in data validation ensuring accurate disaster event reporting across all US States and Counties during federal-mandated incident and outage tracking
- Implemented data quality framework in MSSQL stored procedures with validation rules, schema checks, and automated reconciliation ensuring 99% accuracy in FCC regulatory reports - preventing potential millions of dollars in compliance fines
- Owned definition and validation logic for regulatory metrics including outage duration and response time, establishing role-based access controls, audit logging, and lineage tracking that made these metrics the trusted source of truth for 15+ Reliability teams
- Designed fault-tolerant FCC reporting architecture with load balancers, read/write replicas, automated failover configurations, and CI/CD pipelines - ensuring high availability and data consistency across disaster recovery scenarios
- Built self-service Tableau dashboards adopted by Reliability teams across Incident, Change, and Configuration workflows, reducing ad hoc reporting requests by 5-10 reports weekly and enabling non-technical stakeholders to track performance independently on Xfinity services
- Leveraged Snowflake and Spark for large-scale data transformations and quality profiling, implementing data validation jobs that process millions of records daily with automated alerts for threshold violations

Boehringer Ingelheim

May 2022 - August 2022

Software Engineer Intern

Ridgefield, CT

- Collaborated with cross-functional IT teams to build omni-channel AI agent with Azure Bot Framework and container cloud services to support over 700 queries per day in human-pharma and adverse event reporting
- Created data pipelines extracting conversational and usage data through Azure Blob, Cosmos and PowerBI to facilitate data analysis, testing and reporting
- Designed modular and scalable conversational systems to separate business logic from utility functions using batch data processing and server-less functions

CadenceIQ Sales Technologies

July 2021 - April 2023

Co-founder & Head of AI

Remote, USA

- Deployed conversational AI agent used by sales reps across 7 client companies, surfacing objection history, tone, sentiment analysis and recommending pitch suggestions in real time and driving sales conversions
- Modelled vector search architecture to query documents in natural language, deployed using RestAPIs, AWS Lambda and packaged it in Chrome extension
- Led a team of 3 developers and raised \$125,000 in an angel-backed funding round, delivering software to funded startups and SMEs

EDUCATION

Stevens Institute of Technology

Master of Science (MS), Business Intelligence & Analytics

GPA: 3.9

Narsee Monjee Institute of Management Studies

Bachelor of Science (BS), Information Technology

GPA: 3.3

SKILLS

Skills: SQL, Python, Git, GitHub, AWS Lambda, Amazon S3, Amazon EC2, Amazon Redshift, dbt, Snowflake, MongoDB, Databricks, Apache Kafka, Apache Spark, Apache Airflow, Docker, Kubernetes, REST APIs, Unix/Linux, Tableau, Looker, Microsoft SQL Server (MSSQL), Power BI, Chrome extensions, ETL, Data engineering, Data warehousing, Database management, AI engineering, Natural language processing, Serverless computing, Distributed systems, High availability architecture, CI/CD, Audit logging, Data lineage, Regulatory reporting, Compliance reporting, Data analytics, Quantitative analytics, NoSQL, Hadoop, TensorFlow, MapReduce, Apache Hive, Business Analytics, SLA, Data Modeling, cloud technologies, Google Cloud Platform