SIDDHARTH SINGH

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PROFESSIONAL EXPERIENCE

Comcast **April 2023 - Present**
Data Engineer III *Philadelphia, PA*

- Reduced enterprise cloud costs by $450K annually by configuring VMs, databases, ETL jobs, and security protocols for Comcast Cloud Platform migration
- Engineered accurate Incident, Outage, and Disaster event reporting across all US States and Counties by deploying AWS Lambda microservices for FCC CENA compliance notifications with built-in data integrity and validation checks
- Achieved 99% accuracy in FCC regulatory reports by implementing MSSQL validation rules, schema checks, and automated reconciliation
- Established trusted outage-duration and response-time metrics for 15+ Reliability teams through validation logic, role-based access, audit logging, and lineage tracking
- 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
- Cut ad hoc requests by 5-10 reports weekly with self-service Tableau dashboards for Reliability teams across Incident, Change, and Configuration workflows
- 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*

- Built an omnichannel AI agent with Azure Bot Framework and container services, supporting over 700 weekly queries 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, NoSQL, Unix/Linux, Git, GitHub, AWS Lambda, dbt, Machine learning, Snowflake, PyTorch, MongoDB, Databricks, Apache Kafka, Apache Hive, Apache Spark, Spark SQL, Apache Airflow, Docker, Kubernetes, REST APIs, Tableau, Looker, Microsoft SQL Server (MSSQL), Power BI, ETL, Data warehousing, Data engineering, Database management, AI engineering, Large language models (LLMs), LangChain, RAG, Natural language processing (NLP), CI/CD, Regulatory reporting, Compliance reporting, Data analytics, Data science, Quantitative analytics, Business analytics, Risk management, Cloud security