

LOKESH CHOWDARY JASTI

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PROFESSIONAL SUMMARY

Data Engineer with 4 years of experience building scalable, cloud-native data pipelines using Python, SQL, and AWS to support analytics, regulatory reporting, and operational workloads. Strong background in Snowflake-aligned ELT patterns, workflow orchestration, data quality engineering, and CI/CD automation. Proven ability to optimize distributed systems, enhance data reliability, and deliver curated datasets across pharmaceutical and financial environments.

TECHNICAL SKILLS

Cloud & Data Engineering	: AWS (S3, Lambda, Step Functions, Glue, MWAA), Snowflake, ELT, Lakehouse Patterns
Data Pipelines & Processing	: Python, SQL, PySpark, Distributed Processing, File Partitioning (Parquet/Delta)
Workflow Orchestration	: Airflow/MWAA, Step Functions, Glue Workflows
Data Quality & Observability	: Validation Rules, Reconciliation, Logging, Monitoring, Alerting
DevOps & IaC	: Git-based Workflows, CI/CD, Terraform, CloudFormation
Data Modeling & Governance	: Schema Design, Metadata Management, Data Lineage, Governance Fundamentals
Collaboration & Delivery	: Agile, Sprint Planning, Code Reviews, Incident Triage, Stakeholder Communication

PROFESSIONAL EXPERIENCE

PERRIGO | DATA ENGINEER - DISTRIBUTED SYSTEMS AND CLOUD SERVICES | JUN 2025 – PRESENT

- Engineered 12+ AWS-based data microservices using Python, Java, and C++, enabling processing of 800,000 daily pharmaceutical supply-chain transactions while supporting GMP and FDA-aligned workflows.
- Improved peak-load throughput by 35% by optimizing Python ingestion logic, distributed compute patterns, and S3-based file partitioning for regulated manufacturing datasets.
- Integrated DynamoDB and RDS models across 8 high-volume systems, increasing query performance by 28% through Python-driven indexing analysis, schema tuning, and optimized access patterns.
- Implemented fault-tolerant components across 5 validated production environments, raising availability to 99.9% while maintaining pharmaceutical audit, traceability, and compliance requirements.
- Refactored 15+ performance-critical modules using Python-based profiling and optimized data structures, reducing API response latency by 22% for internal health and wellness analytics services.
- Built automated monitoring dashboards for 25+ regulated endpoints using Python-based log processing, reducing mean-time-to-resolution by 35% during compliance-sensitive on-call operations.
- Leveraged AI-assisted Python development across 6 major releases, accelerating delivery of validated data features by approximately 20% while maintaining documentation and audit readiness.

ENTERGY | DATA ENGINEER | JAN 2024 – MAY 2025

- Developed 18+ distributed transaction processing modules using Python, C++, and Java, reducing batch latency by 30% for regulated energy datasets supporting 3M+ utility customers under strict operational and compliance controls.
- Redesigned 15+ PostgreSQL and Oracle schemas using Python-based workload analysis, improving regulated query performance by 24% and strengthening audit-aligned reporting for grid operations and financial settlements.
- Engineered REST APIs for 12+ microservices handling 500,000+ daily grid and customer-usage requests, increasing reliability by 25% through Python-driven exception handling and utility-grade validation logic.
- Optimized 20+ algorithmic routines using Python profiling tools, improving execution speed by 26% in high-availability systems supporting outage analytics, fraud detection, and regulatory workloads.
- Containerized 9 backend services using Docker and Kubernetes, achieving 100% environment consistency across secured utility clusters with strict access, NERC/CIP, and compliance policies.
- Resolved 40+ high-severity production issues using Python-based log parsing and trace analysis, improving system stability metrics by 45% year over year across mission-critical energy delivery platforms.
- Participated in 10+ senior-level code reviews, reducing post-release incidents by 32% through early detection of data defects, reliability risks, and compliance-related gaps.

PRESIDIO | ASSOCIATE DATA ENGINEER | JAN 2021 – JULY 2023

- Built 35+ modular backend components using Python, Java, and C++, increasing distributed workflow throughput by 30% across enterprise customer-facing applications.
- Designed SQL and NoSQL integrations for 20+ services using Python-based query analysis, reducing peak resource consumption by 28% through optimized execution plans and indexing strategies.
- Implemented concurrency controls in 14 multithreaded services, reducing race-condition defects by 38% and improving stability during 3x load testing scenarios.
- Led cloud migration of 10+ legacy services to AWS using Python-based automation, reducing provisioning time by 45% through infrastructure-as-code patterns.
- Optimized 15 computational workflows using Python refactoring and algorithmic improvements, increasing processing efficiency by 26% and lowering compute costs by 19%.
- Built automated unit and integration test suites achieving 90% coverage, reducing regression defects by 33% during release cycles.
- Supported 12+ production releases over 18 months, maintaining zero critical outages through rigorous validation and cross-team coordination.

PRESIDIO | DATA ENGINEER INTERN | *JAN 2020 – DEC 2020*

- Developed 15 foundational service modules using Python, Java, and C++, improving maintainability scores by 30% through structured design and modular architecture.
- Authored 90+ unit tests using Python and Java, achieving 95% functional coverage across core data modules and reducing defect rates before production rollout.
- Resolved 60+ performance defects using Python-based debugging and log analysis, improving application stability metrics by 35% prior to deployment.
- Automated 10 CI/CD build and deployment scripts using Python, reducing manual release effort by 50% and shortening iteration cycles by 25%.
- Contributed to 6 agile sprints delivering 20+ incremental features, maintaining 100% adherence to documentation and delivery timelines.

EDUCATION

Master of Science in Computer Science

University of North Carolina at Charlotte | Charlotte, NC | May 2025

Bachelor of Technology in Computer Science

V R Siddhartha Engineering College | Vijayawada, India | May 2023

CERTIFICATIONS

- Linux Foundation Certified System Administrator (LFCS)
- AWS Certified Developer – Associate
- Certified Kubernetes Application Developer (CKAD)
- Oracle Certified Professional: Java SE 11 Developer