

Vishul Chauhan

Python Developer | Data Engineer

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Professional Summary

Python Developer and Data Engineer with 4+ years of experience in building scalable backend systems and cloud-native data pipelines. Strong expertise in Python, Airflow, BigQuery, GCP, and AWS, with hands-on experience in ETL/ELT workflows, API development, and production support. Proven ability to deliver reliable, secure, and high-performance systems in high-availability environments.

Technical Skills

Languages: Python, SQL

Frameworks: FastAPI, Flask, Django, Django REST Framework

Cloud Platforms:

- GCP: BigQuery, Cloud Storage (GCS), Cloud Composer, Cloud Functions

- AWS: EC2, S3, Lambda, SQS, ECR

Data Engineering: Apache Airflow, ETL/ELT, PySpark, Databricks, Apache Beam

Databases: PostgreSQL, MySQL, SQLite

DevOps & Tools: Docker, Git, Pytest, JIRA, Confluence

Professional Experience

Python Developer — Aviox Technologies Pvt. Ltd

Jan 2022 – Oct 2024

- Designed and developed Python-based backend services and automation pipelines for data processing and system integration.
- Built and maintained RESTful APIs using FastAPI, Flask and DRF, supporting scalable application backends.
- Developed and deployed workflows on AWS (EC2, Lambda, SQS, Docker), ensuring high availability and performance.

- Optimized ETL pipelines and batch processing jobs, improving data processing efficiency by approximately 30%.
- Collaborated with cross-functional teams to deliver production-ready features and resolve critical system issues.

Key Projects

RPA Automation for Insurance Payer Portals

- Built and deployed RPA solutions to automate insurance payer portals, reducing manual claim processing effort by ~40%.
- Solved complex Google reCAPTCHA v3 automation challenges to ensure uninterrupted data extraction.
- Designed and implemented ETL pipelines using PySpark on Databricks for data scraping, cleansing, and transformation.
- Deployed containerized workflows on AWS using Docker, EC2, ECR, SQS, and Lambda.
- Led a 5-member team, managing sprint planning, delivery timelines, and stakeholder communication.

Freelance Experience

Freelance Data Engineer — Digital Bank

Nov 2024 – Feb 2026

- Designed and implemented GCP-based data pipelines for large-scale banking and financial datasets.
- Developed and maintained Airflow DAGs for automated BigQuery backups, ingestion, and operational workflows.
- Implemented file monitoring and alerting mechanisms integrated with email and Splunk.
- Provided production support for systems handling sensitive financial data, ensuring stability, compliance, and data security.
- Designed and implemented DLP-based encryption workflows using GCP DLP APIs to securely encrypt PII data and store results in partitioned and clustered BigQuery tables for optimized querying and performance.
- Built end-to-end pipeline metadata management tables from scratch, capturing task-level and DAG-level execution details, including processed row counts and operational metrics.
- Developed a configurable DAG generator using Jinja templating and JSON configurations to automatically produce standardized ingestion and data warehouse pipelines.

Education

Bachelor of Technology (B.Tech) — Electronics & Communication Engineering
Shiva Institute of Engineering & Technology, 2017

Languages

- Hindi (Native)
- English (Professional Working Proficiency)