

Abhipriyo Biswas

Junior Data Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 7+ years of experience building and maintaining production-grade applications, currently transitioning into Data Engineering through MSc in Data Science and hands-on ETL, data warehousing, and analytics projects. Skilled in Python, SQL, PostgreSQL, and Apache Airflow for developing automated data pipelines, workflow orchestration, and data processing solutions. Experienced in designing scalable systems, optimizing data workflows, and implementing data quality validation using modern software engineering practices. Familiar with Apache Spark, Docker, and Git, and eager to contribute to building reliable, scalable data platforms and analytics solutions.

TECHNICAL SKILLS

Programming Languages: Python | SQL | JavaScript

Data Engineering: ETL Pipelines | dbt | Data Modeling | Data Warehousing | Batch Processing | Data Transformation | Data Validation | Data Quality Checks | Idempotent Upserts

Databases: PostgreSQL | MySQL

Advanced SQL: Window Functions | CTEs | Joins | Aggregations | Indexing | Query Optimization

Big Data & Workflow: Apache Airflow | Apache Spark

Cloud Platforms: AWS (S3, Glue) | GCP (BigQuery) | Azure (Fundamentals)

DevOps & Tools: Docker | Git | GitHub | Linux | Bash | Jupyter | VS Code

Libraries & Frameworks: Pandas | NumPy | REST APIs | JSON Parsing

Methodologies: Agile | Modular Architecture | Pipeline Orchestration

PROJECTS

CoinPulse — Crypto Market ETL Platform [[Source Code](#)]

2026

Python | PostgreSQL | Apache Airflow | Docker | REST API | Data Warehousing

- Designed and deployed a production-grade end-to-end ETL data pipeline ingesting cryptocurrency market data from the CoinGecko REST API into a PostgreSQL data warehouse.
- Automated daily extraction and transformation of cryptocurrency market data from raw JSON payloads into structured warehouse tables, eliminating manual data collection and processing.
- Implemented idempotent upsert logic and primary-key conflict handling to prevent duplicate records and maintain data integrity across repeated pipeline executions.
- Orchestrated pipeline scheduling and workflow automation using Apache Airflow DAGs within a Dockerized environment.
- Built SQL analytics reports to surface historical price trends, asset performance KPIs, and market movement insights across **100+ cryptocurrency assets**.
- Designed a modular Python architecture with reusable components and centralized configuration management, improving maintainability and reducing code duplication.
- Implemented validation checks and error handling mechanisms to ensure reliable ingestion and transformation of API data.

LogPulse — Application Log Analytics Pipeline [[Source Code](#)]

2026

Python | PostgreSQL | Batch Processing | Data Modeling | SQL Analytics

- Built a scalable batch data pipeline to ingest and process synthetic application logs, transforming unstructured raw text into structured relational records in PostgreSQL.
- Implemented data parsing, field extraction, and data validation checks to ensure clean, analytics-ready

datasets.

- Developed SQL-based analytical reports and KPI dashboards to monitor request volume, HTTP status distribution, and application error trends.
- Engineered scalable ingestion design patterns supporting high-volume log data with built-in data quality enforcement at ingestion.
- Designed normalized relational schemas and indexing strategies to support efficient querying and reporting workloads.

Credit Card Fraud Detection — ML Data Pipeline [*Source Code*]

2025

Python / Pandas / NumPy / Feature Engineering / Data Preprocessing

- Built end-to-end data preprocessing and feature engineering pipelines on a transactional dataset containing over **1M+ records**.
- Applied data cleaning, normalization, and SMOTE-based resampling techniques to address class imbalance and improve training data quality.
- Developed automated transformation workflows producing standardized, model-ready datasets with validated feature distributions and schema consistency.

PROFESSIONAL EXPERIENCE

Career Progression: Web Designer → Frontend Developer → Full Stack Developer

Full Stack Developer / Contractor

Aug 2021 – Dec 2025

TELUS Digital

Remote, Noida, India

- Worked as a Contractor on behalf of Etelligens Technologies.
- Integrated REST APIs and processed structured application data used by internal enterprise systems.
- Optimized backend data processing logic and SQL queries, improving application response time by **20%** across key workflows.
- Collaborated in Agile sprints using Git-based version control, contributing to production deployments with zero critical incidents over 2 years.
- Applied debugging and performance tuning practices to scalable, modular codebases serving thousands of enterprise users.

Frontend Developer

Dec 2020 – Dec 2025

Etelligens Technologies

Remote, Noida, India

- Developed production-grade React.js and AngularJS applications, consuming backend APIs and optimizing data-driven UI performance for **5+ client projects**.
- Collaborated with distributed engineering teams in remote environments, consistently delivering features on schedule across Agile sprints.

Mobile Application Developer

Jun 2020 – Dec 2020

Globiz Technology Inc.

Remote, Ludhiana, India

- Developed hybrid mobile applications using React Native, consuming RESTful APIs and integrating structured backend data into performant mobile UIs.

Web Designer / Associate Frontend Developer

Aug 2018 – May 2020

Promatics Technologies Pvt. Ltd.

Ludhiana, India

- Promoted from Web Designer to Associate Frontend Developer within one year based on technical performance and rapid skill growth.
- Contributed to frontend development across multiple client-facing web projects.

EDUCATION

Master of Science in Data Science | *Degree Award Pending*

Jul 2024 – Jun 2026

Central University of Haryana, Mahendergarh

Relevant Coursework: Data Engineering, Big Data Systems, Database Management, Machine Learning, Statistical Analysis

Bachelor of Arts in Computer Science

Dec 2020 – Apr 2024

Lovely Professional University

CERTIFICATIONS

HackerRank Skill Certifications: Python (Basic), SQL (Basic)

ADDITIONAL INFORMATION

Languages: English, Hindi, Punjabi, Bengali

Target Roles: Junior Data Engineer

Open to: On-site, Remote, and Hybrid positions