

Shreyashi Mohapatra

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Summary

Software Engineer with 4+ years building scalable backend services and data pipelines using Python, microservices, and Hadoop/Spark.

- Architected services handling 100K+ user events daily, optimizing performance and reliability.
- Reduced deployment time by 60% through automated GitLab CI/CD pipelines.
- Improved code coverage to 90%+ and cut post-release defects by 40% via pytest-driven TDD.

Technologies

Languages: Python, SQL, Bash, HiveQL

Frameworks & Libraries: Flask, Django, PySpark, REST/JSON, Apache Spark, Hadoop, Pandas

Platforms & Tools: GitLab CI/CD, Hive, Impala, HDFS, Yarn, Grafana, AWS, GCP

Concepts: Microservices, API Design, TDD, Distributed Systems, ETL Optimization, Agile Scrum, Cloud Principles

Experience

Software Engineer 2, Dell Technologies — Bengaluru

Mar 2023 – Present

- Led the design of a Python microservice integrating OpenStreetMap API to normalize UTC login timestamps to local times with 99% accuracy, enabling real-time hybrid-work tracking for 100K+ employees.
- Analyzed and delivered 30+ complex analytical measures using Hive/Impala and SQL to power executive dashboards with sub-second response times.
- Enhanced the PySpark ingestion framework on Hadoop by adding API pagination, secure MySQL connectivity, and robust error handling, boosting reliability by 25%.
- Integrated ServiceNow REST APIs via Layer7 API Gateway, enforcing security and compliance controls and implemented parsers for free-text JSON payloads.
- Executed pytest-driven TDD, achieving 90%+ coverage and decreasing post-release bugs by 40%.
- Automated GitLab CI/CD pipelines for service and ETL deployments, slashing release cycles by 60%.
- Mentored junior engineers on code reviews, Agile workflows, and system design patterns to elevate team proficiency.
- Collaborated with DevOps and SRE teams to troubleshoot and remediate production integration failures.

Software Engineer 1, Dell Technologies — Bengaluru

Aug 2021 – Feb 2023

- Designed and maintained end-to-end PySpark ETL workflows processing 50TB of logs daily, orchestrated via YARN, Hive, and HDFS to support analytics and ML pipelines.
- Authored pytest suites covering edge cases, elevating test coverage above 80% and reinforcing system stability.
- Automated KPI refresh processes with Python and PySpark, loading results into Oracle and Grafana, reducing triage time by 30%.
- Established stakeholder-driven feedback loops, prioritizing enhancements that increased CSAT from 80% to 95%.
- Standardized CI/CD practices embedding infrastructure-as-code principles for batch and streaming jobs.

Undergrad Engineer Trainee, Dell Technologies — Bengaluru

Feb 2021 – Jun 2021

- Gained Hands on experience to build ETL pipelines in Python and PySpark with SQL to migrate legacy data into a centralized Hadoop data lake, improving reporting performance and data accessibility 40%.

Summer Intern, Dell Technologies — Hyderabad

May 2020 – Jul 2020

- Created “Analytica,” a Flask-React web app automating NLP-based vendor grading for 200+ responses, cutting manual effort by 75%.
- Designed RESTful services and interactive UI components to streamline vendor questionnaire workflows.

Achievements

- **Dell Technologies President Award (2024)** — Developed hybrid-work reporting solution impacting 100K+ team members.
- **Dell Technologies Game Changer Award (2022)** — Optimized ETL processes, reducing batch runtimes from 6 to 2.5 hours (60% improvement).

Education

International Institute of Information Technology, Bhubaneswar

Aug 2017 – Jun 2021

Bachelor of Technology — Computer Engineering