

Pankaj Singla

Software Engineer
B.Tech. IIT Roorkee
[Portfolio](#)

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TECHNICAL SKILLS

Languages : Java, Python
Frameworks : SpringBoot, Spark, PySpark, React
Databases : PostgreSQL, MongoDB
CI/CD : Git, BitBucket, Jenkins, Airflow

EXPERIENCE

Senior Software Engineer

Airtel International LLP

Feb 2024 – May 2025

Gurugram, Haryana, India

- **Airtel Money** : Designed and developed scalable data pipelines on Cloudera Data Platform (CDP) using Apache Spark Structured Streaming (Java, PySpark) to ingest from diverse sources such as relational databases, Kafka and file systems, performing aggregations, transformations and analytics.
- Automated workflows and orchestrated pipelines using Apache Airflow, cron jobs, and Bash scripts, ensuring reliable scheduling, dependency management, and reduced manual interventions.
- Implemented pipeline sanity checks for data validation, anomaly detection, and schema consistency, improving trust in downstream analytics and machine learning use cases.
- **Tech Involved** : Java, Python, Spark, PySpark, Cloudera, Hadoop, Hive, DBeaver, MongoDB, Postgres, Airflow, IntelliJ, PyCharm

Software Engineer

Société Générale

July 2021 – October 2024

Bangalore, Karnataka, India

- **Regulatory Reporting** : Migration of existing legacy monolithic application to microservices. Developed cloud-native microservices using Java SpringBoot. Written test cases for TDD (JUnit) and BDD (Cucumber).
- **RWA Calculation** : Calculation of Risk Weighted Asset using an event-driven microservice application with asynchronous communication via RabbitMQ.
- **Code Upgradation** : Improving Code Coverage, Migrating existing services from On-prem to AWS, Implementation of Vault, Removing SQL Injections, duplications from codebase etc.
- **Tech Involved** : Java, SpringBoot, Microservices, RESTful APIs, Teradata, React, IntelliJ, RabbitMQ, AWS

Data Science Intern

Envestnet Yoodle

May 2020 – July 2020

Bangalore, Karnataka, India

- **Recurrence Detection** : Determining recurrent transactions on credit cards
- **Tech Involved** : Python, Numpy, Pandas, Matplotlib, Seaborn, sklearn

EDUCATION

B.Tech. IIT Roorkee

2017-2021

- **Major** : Electronics and Communication Engineering
- Secured 2nd Rank in Annual Tech Fest of IIT Roorkee at Models and Robotics Section
- Team Member ARIES and UBA

CBSE, Senior Secandory

2015-2017

- **AIR 1092** in JEE Advanced