

# Pankaj Singla

Software Engineer

B.Tech. IIT Roorkee

Portfolio

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## SUMMARY

Software Engineer with around 4 years of experience in Backend, Data Engineering, and AI systems.

## TECHNICAL SKILLS

**Languages** : Java, Python

**Frameworks** : SpringBoot, Spark, PySpark, FastAPI, React

**Databases** : PostgreSQL, MongoDB, ChromaDB

**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 for KPI generation for 14 countries, to ingest from diverse sources such as databases, Kafka and file systems, performing aggregations, transformations and analytics.
- Performing testing and sanity checks for data validation, anomaly detection and schema consistency.
- Ensured reliability and accuracy of data pipelines by proactively monitoring and resolving breakages, data skews, and anomalies in workflows.
- Tech Involved** : Java, Python, SQL, Spark, PySpark, Cloudera, Databricks, Hadoop, Hive, DBeaver, MongoDB, Postgres, Airflow, IntelliJ, PyCharm

### Software Engineer

Société Générale

July 2021 – October 2024

Bangalore, Karnataka, India

- Regulatory Reporting** : Developed cloud-native REST APIs, implemented Unit Test and Integration testing, implemented Vault for existing services, configuring Redis cache with services to reduce average response time.
- RWA Calculation** : Development of APIs for calculation of RWA used in event driven approach using RabbitMQ.
- Code Upgradation** : Improving Code Coverage, Implementation of Vault, Removing SQL Injections, duplications from codebase etc.
- Tech Involved** : Java, SpringBoot, Microservices, RESTful APIs, SQL, Teradata, React, IntelliJ, RabbitMQ, OpenShift, AWS

### Data Science Intern

Envestnet Yodlee

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

### CBSE, Senior Secondary

2015-2017

- AIR 1092** in JEE Advanced