Pankaj Singla

Software Engineer
B.Tech. IIT Roorkee
Portfolio

LinkedIn
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+91-9350006933

TECHNICAL SKILLS

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

EXPERIENCE

Senior Software Engineer   Feb 2024 – May 2025
Airtel International LLP   *Gurugram, Haryana, India*

- **Airtel Money** : Designed and developed scalable data pipelines on Cloudera Data Platform (CDP) using Apache Spark (Java, PySpark) to ingest from diverse sources such as relational databases, Kafka and file systems, performing aggregations, transformations and analytics.
- Data pipeline testing and sanity checks for data validation, anomaly detection, and schema consistency, improving trust in downstream analytics and machine learning use cases.
- **Tech Involved** : Java, Python, SQL, Spark, PySpark, Cloudera, Databricks, Hadoop, Hive, DBeaver, MongoDB, Postgres, Airflow, IntelliJ, PyCharm

Software Engineer   July 2021 – October 2024
Société Générale   *Bangalore, Karnataka, India*

- **Regulatory Reporting** : Designed and developed cloud-native microservices from scratch for regulatory reports generation. Implementing Unit Test and Integration test Strategies. Configuring Redis cache with services to reduce average response time.
- **RWA Calculation** : Contributed in development of an event-driven architecture for calculation of Rist Weight Asset.
- **Code Upgradation** : Improving Code Coverage, Implementation of Vault, Removing SQL Injections, duplications from codebase etc.
- **Tech Involved** : Java, SpringBoot, Microsevices, RESTful APIs, SQL, Teradata, React, IntelliJ, RabbitMQ, OpenShift, AWS

Data Science Intern   May 2020 – July 2020
Envestnet Yoodle   *Bangalore, Karnataka, India*

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

EDUCATION

PGP, University of Texas of Austin   2025-2026

- **Major** : Artificial Intelligence and Machine Learning
- Worked on multiple problem statements using Regression, Clustering, Bagging, Boosting, Neural Networks, NLP with LLM, CNN etc.

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 Secandory   2015-2017

- **AIR 1092** in JEE Advanced