

# Pankaj Singla

Senior Software Engineer

B.Tech. IIT Roorkee

[Portfolio](#)

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+91-9350006933

## TECHNICAL SKILLS

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- Languages** : Java, Python, SQL
- Frameworks** : SpringBoot, Spark, PySpark, FastAPI, React
- Databases** : MySQL, PostgreSQL, MongoDB, Hive, ChromaDB
- AI Integration** : OpenAI API, Langchain, Crewai
- Cloud DevOps** : Git, BitBucket, Jenkins, Airflow, Docker, Kubernetes, Grafana

## EXPERIENCE

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### Senior Software Engineer

ToneTag

Nov 2025 – present  
Bangalore, Karnataka, India

- **CBDC** : Designed and developed scalable microservices handling secure wallet transactions and NPCI integrations, supporting high-throughput real-time payments.
- Handled transaction reconciliations, data corrections, chargebacks, and credit settlements, ensuring ledger consistency, settlement accuracy, and regulatory compliance.
- **Tech Involved** : Java, SpringBoot, Gradle, Python, Django, RESTful APIs, SQL, Postgres, IntelliJ, Docker, AWS

### 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, Spark, Python, PySpark, SQL, Cloudera, Databricks, MongoDB, Postgres, Kafka, 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, Docker, OpenShift, AWS

## EDUCATION

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### PGP Artificial Intelligence and Machine Learning, UT Austin

[Portfolio](#)

2025-2026

- Built end-to-end ML solutions including model development, hyperparameter tuning, and API-based deployment.
- Developed scalable APIs using Python, Flask, and Docker, implementing regression, classification, CNN-based computer vision, and NLP solutions with LLM integration.

### B.Tech. Electronics and Communication Engineering, IIT Roorkee, Uttarakhand

2017-2021

- Secured 2nd Rank in Annual Tech Fest of IIT Roorkee at Models and Robotics Section
- **AIR 1092** in JEE Advanced