

# Pratyush Kumar

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## Experience

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### Rahi Platform Tech

Pune, India

#### Software Engineer

Feb 2025–present

- Developed backend components for a Loan Management System (LMS) using Java, focusing on scalable and maintainable architecture
- Built and enhanced Master Data Management (MDM) module, including entity design, validation, and persistence logic
- Implemented a modular validation framework (Type, Length, Regex, Range, Allowed Values, Reference, Editable validators)
- Designed and developed a data ingestion framework (DataLoader) using configurable JSON mappings for dynamic RDBMS operations
- Designed and developed an ETL tool in Java to facilitate data migration between systems, leveraging SQL/JDBC for extraction, transformation, and loading of structured data across relational databases
- Implemented Kafka-based event-driven processing for GL daily summary and trial balance computation triggered via business date events
- Developed BOD (Beginning of Day) logic for trial balance computation with fallback using GL master data
- Enhanced financial features such as penal calculation simulation and loan excess refund handling
- Wrote unit tests using TestNG and Mockito to improve code reliability
- Optimized dynamic repository handling using reflection to reduce boilerplate code

### Aptiv

Bangalore, India

#### Software Engineer

Oct 2022–Feb 2025

- Worked on Software-in-the-Loop (SIL) validation for ADAS systems using C++
- Processed ORCAS logs from real-time vehicle environments and virtual simulations
- Built pipelines to replay logs and generate outputs (CSV, XML, MF4, CAN) for multi-sensor systems (RL, RR, FL, FR)
- Compared generated outputs with reference logs to identify mismatches and validation failures
- Debugged and enhanced ADAS algorithms including Cross Traffic Alert (CTA)
- Automated scenario-based testing and report generation from real-time and simulated datasets
- Used Coverity for static analysis and bug fixing
- Ensured cross-platform compatibility across Linux and Windows

### Cognizant

Remote, India

#### Software Engineer Intern

April 2022–Oct 2022

- Assisted in backend development using Java for a seller management system
- Implemented CRUD operations for managing seller and product data
- Wrote and optimized SQL queries using MySQL
- Worked on data validation logic to ensure consistency
- Debugged and fixed issues in existing code
- Collaborated using Git and followed standard development workflows

## Skills

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**Languages:** Java, C/C++, Python, SQL

**Backend:** Core Java, Kafka, Data Structures, Spring Boot

**Testing:** TestNG, Mockito

**Tools:** Git, Jenkins, Docker, Linux, Jira

**Concepts:** OOP, Multithreading, System Design Basics

## Education

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Heritage Institute of Technology, Kolkata

Information Technology , B.Tech

Kolkata, WB

2018–2022