

# Ankit Kumar

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## EDUCATION

### Graphic Era Hill University

Bachelor of Technology in Computer Science

Dehradun, Uttarakhand

July 2020 – July 2024

## EXPERIENCE

### Specialist Programmer

July 2024 – Present

Infosys

Bangalore, KA

- 1+ years of professional software development experience building enterprise-scale systems using **Java**, following industry-standard software design principles and best practices.
- Working on a Government TDS (Tax Deducted at Source) platform, contributing to the **Processing module** responsible for PAN/TAN-based statement ingestion and validation, handling **high-volume financial data at scale**.
- Refactored legacy PL/SQL stored-procedure-based logic into modular, testable **Spring Boot microservices**, reducing code complexity by **40%** and improving long-term maintainability and service uptime.
- Implemented **multithreaded processing** using **ThreadPoolExecutor** and **ExecutorService**, enabling concurrent processing of statements and reducing end-to-end processing latency by **50–70%**.
- Designed and integrated **Kafka-based asynchronous messaging** pipelines, decoupling services and improving fault tolerance and message reliability under peak load conditions.
- Wrote comprehensive **JUnit tests**, achieving **85%+ unit test coverage**, and enforced consistent **code quality gates** using **SonarQube** and **Checkstyle** as part of CI pipelines.

## PROJECTS

### JobNoti | Java, Spring Boot, Selenium, ChromeDriver, MySQL, JPA, Twilio API, REST APIs, Scheduled Tasks

- Developed a backend system that automatically scrapes job listings from specific company career pages using **Selenium** and **ChromeDriver**.
- Integrated with **MySQL** using **Spring Data JPA**, implementing persistent storage for scraped job data to enable deduplication and history tracking.
- Used Spring's **@Scheduled** annotation to run scraping tasks at fixed intervals, automating the discovery of new job postings.
- Built a RESTful API layer using **Spring Boot** to manage user subscriptions, configure scraping targets, and expose job data.
- Implemented real-time notifications via **Twilio API**, delivering personalized WhatsApp messages to users upon detecting new job listings.

### SmartCharge | Java, Spring Boot, ReactTS, Machine Learning, XGBoost, OAuth, SQL

- Developed an AI-powered EV trip optimization platform that delivers real-time estimated wait times at charging and battery swap stations using an **XGBoost-based predictive model**.
- Integrated the model into the Java backend to serve predictions efficiently within the core business logic, eliminating the need for external services.
- Implemented a route optimization engine using the **Haversine formula**, calculating distances between charging stations to determine the most efficient travel path.
- Engineered a dynamic trip planner that identifies optimal routes by minimizing cumulative wait times at EV charging stations along the path.

## TECHNICAL SKILLS

**Languages:** Java, C++, SQL, JavaScript, TypeScript

**Core Concepts:** Object-Oriented Programming, Data Structures, Multithreading, Debugging, Software Design Principles

**Technologies:** Spring Boot, Microservices, REST APIs, Apache Kafka, MVC Architecture

**AI/ML:** XGBoost, ML Model Integration

**Developer Tools:** Git, Maven, Postman, SonarQube, Checkstyle