

# Janvii R V

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## Summary

Software Engineering focused Computer Science undergraduate with experience building backend APIs, scalable task queues, and Spark-based data pipelines. Skilled in Python, Java, SQL, Flask, Kafka and Apache Spark, with projects that analyze latency, improve task throughput, and implement recommendation logic from scratch.

## Education

### PES University

B.Tech in Computer Science

Bangalore, India

Expected May 2026

Relevant Coursework: Algorithms, Data Structures, Operating Systems, Computer Networks, Database Management Technologies, Machine Learning, Big Data, Statistics for Data Science, Generative AI

### Christ Junior College

Senior Secondary (XII), Science

Bangalore, India

August 2020 – May 2022

## Experience

### GrayStag

#### Full Stack Developer

Bangalore, India (Remote/Hybrid)

November 2025 – Present

- Developed REST endpoints and SQL queries powering several internal web modules used by non-technical stakeholders.
- Refactored request-handling and validation logic, reducing duplicated code across services and simplifying future feature additions.
- Collaborated in an agile team using Git, pull requests, and code reviews to ship monthly releases with incremental improvements.

## Projects

### Group Article Recommendation System (Research-Oriented)

September 2024 – Present

- Engineered a group-based article recommendation engine using a Knowledge Graph to capture relationships between users, groups and content.
- Applied metaheuristic optimization to rank articles for multiple users at once, improving coverage of shared interests in evaluation scenarios.
- Created an end-to-end pipeline for ingestion, preprocessing, ranking and API exposure; results are being prepared as a research paper.

### YATDQ – Task Queue System with Kafka

November 2024

- Designed a Kafka-based task queue that routes jobs from producers to worker services for asynchronous execution.
- Built workers that consume and process batches of synthetic jobs, maintaining stable throughput under hundreds of queued tasks.
- Coordinated with a 4-person team to define task life cycle, error handling and simple monitoring scripts.

### Streaming vs Batch Processing Benchmark (Apache Spark)

April 2025

- Constructed Spark pipelines in Python to compare batch jobs against Structured Streaming for event data.
- Measured latency and throughput on workloads containing hundreds to thousands of simulated events.
- Summarized trade-offs in a short report to guide when to prefer real-time processing over offline aggregation.

### Mini Search Engine (TF-IDF & Cosine Similarity)

January 2025

- Developed a Python search engine that indexes documents and ranks results using TF-IDF vectors and cosine similarity.
- Designed a simple command-line and web interface that returns top-k relevant documents for user queries.

### Leadership & Activities

#### CodeChef PESU ECC

Bangalore, India

#### Marketing Team Member

Sept 2023 – Apr 2025

- Promoted coding contests and hackathons through online campaigns and on-campus events, increasing participation from first-year students.

#### Maaya 2023 & 2024

Bangalore, India

#### Finance Team Member

2023 – 2024

- Helped draft and track event budgets for large cultural festivals, coordinating with multiple clubs to manage expenses.

### Skills & Interests

**Technical:** Python, Java, JavaScript, SQL, Flask, REST APIs, Kafka, Apache Spark, Git, Linux

**Language:** English (Fluent), Kannada (Conversational)

**Interests:** Scalable backend systems, recommender systems, hackathons, photography.