

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.