

Prajwal Banakar

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PROFESSIONAL SUMMARY

Google Summer of Code 2026 Contributor under the Apache Software Foundation with contributions to Apache Fluss, a distributed streaming storage system. Experienced in Java, Spring Boot, distributed systems, stream processing, and backend infrastructure development. Credited contributor in Apache Fluss v0.9.0 and Fluss Clients v0.1.0 official releases.

EXPERIENCE

Google Summer of Code 2026 Contributor

The Apache Software Foundation (Apache Fluss Incubating)

May 2026 – Present

Remote

- Authored and led FIP-37, an Apache Fluss Improvement Proposal introducing bitmap-native analytics and aggregation pushdown capabilities.
- Built the bitmap processing infrastructure, including serialization, aggregation frameworks, and storage abstractions required for native bitmap support.
- Implemented and merged bitmap aggregate functions integrated with Fluss SQL, enabling efficient unique-user and set-based analytics workloads.
- Developed bitmap scalar functions supporting cardinality estimation, membership queries, and bitmap set operations.

Software Engineer Intern

Springer Capital

Jan 2026 – April 2026

Remote

- Developed backend services using **Java** and **Spring Boot** for fintech workflows and internal platform operations.
- Designed secure and scalable **REST APIs** with authentication, validation, and optimized request handling.
- Integrated relational database operations and business workflows using Spring Data JPA and SQL-based persistence.

TECHNICAL SKILLS

Languages : Java, SQL, C++

Backend : Spring Boot, Spring Security, Hibernate, RESTful APIs

Distributed Systems : Apache Fluss, Apache Flink, Stream Processing, Distributed Storage

Databases : MySQL, PostgreSQL

DevOps & Tools : Git, GitHub, Docker, Maven, Jenkins, GitHub Actions, Linux

Concepts : OOP, Multithreading, Collections Framework, System Design, Data Structures and Algorithms

PROJECTS

RoaringBitmap Analytics UDFs | Java, Apache Flink, RoaringBitmap

GitHub

- Implemented 12 RoaringBitmap-based SQL UDFs for Apache Flink, including aggregate functions for bitmap construction and set operations, along with scalar functions for cardinality estimation and membership queries.
- Enabled efficient unique-user analytics by leveraging compressed bitmap representations, reducing the need for expensive DISTINCT aggregations in large-scale analytical workloads.

Employee Management System | Microservices Architecture

GitHub

- Built a distributed Employee Management System using Spring Boot microservices architecture.
- Implemented API Gateway, Eureka Service Discovery, and JWT-based authentication using Spring Security.
- Developed employee, payroll, and leave management services with RESTful inter-service communication.

EDUCATION

Bachelor of Engineering in Information Science

Ghousia College of Engineering, VTU | **CGPA: 7.5/10**

Dec 2022 – May 2026

Ramanagara

ACHIEVEMENTS

- Selected for Google Summer of Code 2026 under The Apache Software Foundation.
- Recognized as a credited contributor in Apache Fluss v0.9.0 and clients v0.1.0 release and Contributed 18+ pull requests
- Authored and drove FIP-37 (Apache Fluss Improvement Proposal) for Native RoaringBitmap Integration, accepted through Apache community voting.