

Prajwal Banakar

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EXPERIENCE

Google Summer of Code 2026 Contributor

May 2026 – Present

The Apache Software Foundation (Apache Fluss)

Remote

- Authored Fluss Improvement Proposal FIP-37, Native RoaringBitmap Integration, accepted through community vote.
- Implemented 12 bitmap SQL functions natively in FlussCatalog, eliminating external UDF JARs entirely.
- Built serialization infrastructure wire-compatible with Fluss server-side bitmap aggregation.
- Delivered 4 PRs (3 merged) across fluss-flink-common with 1,500+ lines of production Java.

Software Engineer Intern

Jan 2026 – April 2026

Springer Capital

Remote

- Built REST APIs and authentication flows using Java and Spring Boot for fintech platform operations.
- Designed SQL schemas and integrated backend services with Spring Data JPA end-to-end.

OPEN SOURCE CONTRIBUTIONS

Apache Fluss — Streaming Storage for Real-Time Analytics

Pull Requests

- 28+ pull requests merged, 6,000+ lines of code contributed across core engine, Flink connector, and documentation.
- Ranked in the **top 25 contributors** to Apache Fluss out of 150+ contributors.
- Credited contributor in Apache Fluss v0.9.0 and Fluss Clients v0.1.0 official releases.
- Built `fluss-docgen` a new module that automates ConfigOptions documentation generation.
- Added Arrow RecordBatch integration and configurable fetch parameters to the Rust client.
- Shipped Real-Time User Profile quickstart tutorial and Java, Python, Rust, and C++ client documentation.

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

PROJECTS

RoaringBitmap Analytics UDFs | Java, Apache Flink, RoaringBitmap

GitHub

- Implemented 12 bitmap SQL UDFs for Apache Flink covering aggregation, set operations, and cardinality queries.
- Reduces expensive COUNT(DISTINCT) aggregations using compressed bitmap representations at scale.

Employee Management System | Microservices, Spring Boot

GitHub

- Built distributed system with API Gateway, Eureka discovery, and JWT-based authentication.
- Developed employee, payroll, and leave services with REST inter-service communication on Docker.

EDUCATION

Bachelor of Engineering in Information Science

Dec 2022 – June 2026

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

Ramanagara

ACHIEVEMENTS

- Selected for **Google Summer of Code 2026** under The Apache Software Foundation.
- Credited contributor in Apache Fluss v0.9.0 and Fluss Clients v0.1.0 official releases.
- Passed GSoC midterm evaluation with strong mentor feedback on technical progress and community engagement.