Kripa Sindhu

Full-Stack Engineer • OpenFeature (CNCF) Organization Member

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Go, SQL, Python
Frontend: Angular 19/20, React 19, Next.js 15, RxJS, AG Grid, Tailwind CSS
Backend, Data & Platform: Node.js, Express, Cube.js, PostgreSQL, MongoDB, Redis, dbt, Docker, GitHub Actions, Grafana

WORK EXPERIENCE

BeatRoute Innovation **May 2025 – Present**
Software Engineer *Gurugram, India*

- Own the self-serve **Report Builder** end to end — the **Angular 20** UI and the **Cube.js** semantic layer behind it — shipping new data sources, calculated-field behaviour, filtering, and export paths for multi-tenant CPG customers.
- Model and extend a **73-cube Cube.js** semantic layer over a dbt-built multi-tenant **PostgreSQL** warehouse, authoring **cubes, measures, dimensions and joins**, and populating the member metadata that drives both the AI copilot's SQL generation and the report-builder field pickers.
- Profiled and optimised the report builder's client-side aggregation path: cut redundant grid-state reads from **800,000 to 1** per aggregation pass and per-row formula evaluations by **~45%**, taking **100,000-row reports from crashing the browser tab to aggregating in 2.8 s** — verified by a golden-master harness at four data scales, which then localised the remaining ceiling to the server-side query.
- Shipped the **React 19 + WebSocket** AI copilot's report-building surface — multi-table report artifacts, cancellation, shared-credit display, and composer recovery when a streamed turn never returns a reply — and fixed mount-order defects that left the widget missing on portal routes.
- Hardened multi-tenant analytics correctness: replaced unguarded per-row SQL casts on text-backed dimensions (a single bad value failed an entire report), qualified ambiguous join columns, and corrected org-hierarchy descendant counts.
- Extended a **TypeScript/Express + MongoDB** Tally ERP sync broker with a company-configurable invoice window in the settings API, batch guards for cancelled/deleted invoices, and server-side list-filter fixes.
- Built **EU/US multi-region** bundles and branch-based CI deploys for the portal and report builder; authored **188 Jasmine/Karma spec files (~1,970 cases)** across the portal and retailer PWA.

OPEN SOURCE CONTRIBUTIONS

OpenFeature (CNCF) and **go-git** **Sep 2026 – Present**
Organization Member (OpenFeature) • Contributor — Go *Remote*

- Inducted as an **OpenFeature organization member**; landed **13 merged pull requests** across the org, including **9 in the Go SDK**, covering provider lifecycle and state propagation, unchecked type assertions that panicked out of flag evaluation, flag-metadata isolation, disabled-flag semantics, and abnormal hook execution.
- Contributed to the **OpenFeature specification** (after-hook error semantics) and to cross-SDK infrastructure (TLS certificate SANs in the flagd conformance testbed).
- **go-git:** fixed a repository **data-integrity** bug by publishing a generated packfile before deleting the loose objects it replaces, preventing object loss when pack publication fails; added regression coverage and validated the behaviour against upstream Git.

PROJECTS

Distributed Task Queue *Go • Redis • Next.js 15*

- Guaranteed **at-least-once delivery** under `kill -9` via lease-based visibility timeouts and **atomic Lua** operations, a reaper with **owner fencing**, heartbeat failure detection, and **Redis-lease leader election** across replicas.
- Built a **concurrent worker pool** (goroutines, `sync.WaitGroup`) with graceful shutdown on a drain deadline, exponential-backoff retries with **dead-letter** isolation over Redis sorted sets ($O(\log N)$ dequeue), instrumented with **Prometheus/Grafana** and shipped via multi-stage **Docker** and **GitHub Actions**.

prahari — type-safe environment variables for TypeScript *published on npm*

- Authored and released **v1.0.0 to npm** with **Trusted Publishing (OIDC)** and build provenance; supports **Standard Schema** validators (Zod / Valibot / ArkType) and ships **Next.js** and **Vite** adapters with server/client leak guards, covered by snapshot and property-based tests.

ACHIEVEMENTS & PUBLICATION

- Solved **1000+ Data Structures & Algorithms problems**; **Knight** on **LeetCode** (contest rating 1850+). Qualified **GATE (Computer Science)** in **2024 and 2025**.
- **EV-GREEN:** co-authored a peer-reviewed article on a hybrid **MILP** + graph-heuristic framework for electric-vehicle eco-routing with **GreenZone** prioritisation and **Vehicle-to-Grid** incentives; *Computing* (Springer Nature), Vol. 108, Art. 27, Feb 2026.

EDUCATION

Indian Institute of Information Technology, Guwahati **Dec 2021 – Apr 2025**
B.Tech in Computer Science and Engineering • CGPA: 7.39/10 *Assam, India*