

# RAUNAK SINGH

SDE-1 · Software Development Engineer · Zenith Intelligence Platform · Fynd (Shopsense Retail Technologies)  
AI-Native Engineering · Full-Stack Delivery  
github.com/Raunaks068619 · raunaksingh@gofynd.com · Mumbai

## CORE SKILLS

### Backend Engineering

- Node.js · TypeScript · Express · Python · Java/Spring Boot
- REST & GraphQL APIs, middleware, async patterns
- PostgreSQL · Supabase · Drizzle · Sequelize ORM

### AI / ML Systems

- Multi-agent orchestration: Claude Code + Codex + Gemini
- LLM integrations: OpenAI, Vertex Imagen, Whisper, GPT-4o
- Custom skills + MemPalace for persistent context
- Plan-mode, TDD, spec-first AI workflows

### Data Infrastructure

- BigQuery — RLS, DLQ reflow, scheduled queries, cost-capping
- Self-healing pipelines with idempotent per-table mutexes
- Schema-as-contract evolution (avionics clickstream)

### Cloud & Platform

- GCP: Cloud Run, Cloud Scheduler, Buildpacks, Vertex AI
- Kubernetes, Fik IaC, Vercel, Azure DevOps pipelines
- Redis · Firestore · IndexedDB · pg\_cron

### Frontend & Native

- React 19 · Next.js 16 · Vite · RTK Query · Tailwind · SCSS/BEM
- Swift / Xcode — macOS menu-bar, Accessibility, Input Monitoring
- PWA, Service Workers, Web Push (VAPID)

## OPEN SOURCE & SIDE PROJECTS

### @Raunaks068619/VoiceFlow — Wispr Flow Alternative

- macOS menu-bar voice typing (Swift + Whisper)
- Verbatim / Clean / Hinglish modes; Homebrew tap distribution

### @Raunaks068619/bookmark-ai

- Next.js 16 PWA — X bookmarks → AI summaries, decks, chat
- OpenAI + Vertex Imagen, Supabase, Drizzle, DodoPayments billing

### @Raunaks068619/agency-agents

- Personal multi-agent framework — frontend wizard, reality checker

## CONTRIBUTIONS AT FYND

### Avionics — Events Interceptor (Sole Owner)

- End-to-end ownership of clickstream interceptor for storeOS, Fynd, and Nginx events
- Schema evolution, error triage, and DLQ management — all in one hand
- Wrote optimized reflow code that recovered 36k+ schema-invalid events
- Building reflow API to schedule on-demand reflows (Cloud Run + Scheduler)
- Idempotent per-table mutexes via BigQuery state; crash-recovery built-in

### zen-cli — Monorepo Developer Tooling

- Single-command local bootstrap — auto-installs everything to run the monorepo
- Single-command Jenkins deploy automation across environments
- Removes onboarding friction across 24 microservices

### Fynd Recommendations Extension (Owner)

- Owns the extension powering all storefront recommendation types
- **RankBoost** — placement-slug routing + boost scoring; rank-stamping decoupled from array position
- **Recently Viewed** — local-first localStorage flow, clean BQ fallback for login-merge
- **Brand Diversity** — fairness layer across surfaced products
- 670+ lines of TDD coverage across boost\_score, rank, recently\_viewed

### Smart Suggestions — Zenith-Driven Insights

- Per-company action suggestions powered by analysis of Zenith warehouse data
- Promotion creation, collection creation, product description updates
- Festival-aware ad-push recommendations with scheduled execution

## BY THE NUMBERS

|                                    |                  |
|------------------------------------|------------------|
| DLQ events recovered (Avionics)    | 36k+             |
| Microservices supported by zen-cli | 24               |
| Recommendation types owned         | 3 special + base |
| Test coverage added (lines)        | 670+             |
| Public GitHub repos                | 33               |

## Tech Stack

Node.js · TypeScript · Python · Swift · React · Next.js · BigQuery · GCP · Vertex AI · Supabase · Drizzle  
Redis · Firestore · Kubernetes · PostgreSQL · Cloud Run · Whisper · OpenAI · Tailwind · Fik IaC