

RINKAL KUMAR

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🌐 [LinkedIn](#)

🐙 [GitHub](#)

🔗 [LeetCode](#)

TECHNICAL SKILLS

Languages: Java, Python, JavaScript (ES6+), TypeScript

Backend: Node.js, Express.js, PostgreSQL, MongoDB, Redis, BullMQ, WebSockets, YJS (CRDTs), Hocuspocus, CI/CD

Frontend: React, Next.js, Tailwind, Zustand, Recoil, Framer Motion.

AI & Cloud: OpenAI, Gemini, Groq, Cohere, Multi-model Orchestration, AWS S3, Cloudinary, GCS

Tools: Git, Postman, esbuild, VS Code Extension API, Stream Processing.

EXPERIENCE

Software Development Intern — *I-3 Integrated Co. Private Limited, Onsite*

May 2025 – Present

- **Shipped production features** on a large-scale **ERP platform** using **Next.js, TypeScript, and PostgreSQL** — owning full-stack tasks from schema design to deployed UI.
- **Implemented CI/CD pipelines** for automated testing and production deployment, reducing manual release overhead.
- **Collaborated on backend architecture** — building modular REST APIs, JWT authentication, and shared codebases following clean code principles in an agile team workflow.

Founder & Full-Stack Engineer | [Re-collect.in](#) — *Production SaaS Platform*

Oct 2025 – Present

- **Built ReCollect** to kill the tab-switching, copy-pasting, re-explaining-to-AI loop that modern developers live in — a single workspace where docs, tasks, canvas, and AI all share the same context from day one.
- **Engineered real-time multi-user collaboration** using **YJS CRDTs** and a custom **Hocuspocus WebSocket server** — handling simultaneous cursors, offline sync, and conflict resolution without session locking.
- **Wired a multi-model AI orchestration engine** across Gemini, OpenAI, Groq, and Cohere — every module (Docs, Tasks, Whiteboard, Email) has context-aware AI that understands what the user is working on.
- **Powered complete file handling pipelines** via own open-source **Upfly** library — from infrastructure to production.

OPEN SOURCE & PROJECTS

Upfly 2.0 — Complete File Handling Solution (**1000+**  [🔗](#) | [Live](#) | [npm](#))

Oct 2025

- **Introduced Upfly 2.0:** a next-generation middleware that enables **real-time, stream-based uploads**.
- Achieves up to **7× faster processing** and **90% lower memory usage** inside custom storage engine.
- Supports **direct cloud uploads** (Cloudinary, S3, GCS) with built-in fallbacks ensuring 100% reliable delivery.
- Stream-split architecture maintains flat 3-8 MB memory usage even for 1GB files.

Upfly — VS Code Extension (**400+**  [🔗](#) | [Open VSX](#))

Feb 2026

- **Built a zero-touch asset pipeline inside VS Code** — detects, converts, and ships images to CDN the moment they land in a watched folder, with no developer interaction ever.
- Handles what most tools get wrong — **git pulls, branch switches, renames, batch pastes** all silently resolved.
- **Monorepo-aware** via 3-tier config discovery — each sub-project owns its upfly.config independently.
- Drop an image, get a CDN URL — auto-delivers to **Cloudinary, S3, or GCS** with `${env:VAR}` credential injection and logs the result to `.upfly/uploads.json`.

CityScouts — Tourism Discovery Platform [🔗](#) | [Live](#) | [MERN](#), [Recoil](#), [Tailwind](#), [Cloudinary](#) **April 2025**

- Built a full-stack tourism discovery platform with advanced search, infinite scroll, interactive maps, and role-based access (**Admin, Contributor, User**).
- Engineered REST APIs in Express.js with filtering, pagination, and Cloudinary image uploads; used **Recoil** and custom hooks for optimized state and data fetching.
- **Recruiter Access:** View-only Admin Panel — **Email:** CityScout.Recruiters@gmail.com **Password:** [City2025](#)

EDUCATION

Rayat Bahra University, Mohali

2022 – 2026 (Expected)

B.Tech — Computer Science and Engineering

Kharar, Punjab

- Relevant coursework: Data Structures & Algorithms, Operating Systems, Database Management, Computer Networks
- Solved **200+ DSA problems** on LeetCode; active open-source contributor with projects in production