

RACHIT SINGH

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EXPERIENCE

Software Engineer

June 2026 – Present

SELLABROAD PTE LTD, Dubai-Remote

- Built and shipped a **gift card payment system from scratch**, extending the physical-goods checkout architecture to support virtual goods across **Stripe and PayTabs**; added virtual-product detection, merchant feature flags, multi-purpose gift card tax handling, and integration with the existing **7-day payout maturity cycle** across Medusa v2 and Next.js.
- Improved **checkout and merchant payout infrastructure** by migrating a standalone analytics platform (**React/Vite + Hono + PostgreSQL**) into the core monorepo, eliminating a third-party dependency; resolved a **Wise API** payout failure for AUD transfers and enabled configurable order-confirmation emails across **50+ merchants** without redeployment.
- Designed and shipped **Payout Transparency** across merchant and admin dashboards with live payout calculations, order-level payout status, and Sync/Add Tracking actions; closed a **payout-fraud vulnerability** by enforcing fail-closed Ship24 tracking validation with hermetic unit tests.

Software Development Engineer Intern

March 2026 – June 2026

XenotixLabs Pvt Ltd, Noida-Remote

- Developed and shipped **4+ full-stack MVPs** using **React, Next.js, Node.js, and TypeScript**, building REST APIs, authentication flows, database-backed features, and client-facing interfaces.
- Built production services on **AWS EC2/S3**, integrated **Razorpay** payment flows, and implemented **BullMQ** background jobs for asynchronous processing and improved application responsiveness.
- Implemented **GitHub Actions CI/CD** pipelines for automated build, testing, and deployment, alongside **2FA and application security controls** for authentication and data protection.

PROJECTS

Visitrail — URL Shortener with Real-Time Click Analytics — [\(LIVE\)](#)

- Built a **high-performance URL shortener** in Go with Redis caching achieving **sub-50ms p95 redirects**, PostgreSQL fallback, and an asynchronous Redis Streams pipeline with dedicated workers, idempotent writes, deduplication, and analytics rollups for device, browser, country, referrer, and unique visitors.
- Built REST APIs and a React analytics dashboard with real-time metrics and 7/30/90-day trends; implemented **Clerk OAuth, rate limiting, CSRF protection, SSRF/open-redirect prevention**, and deployed on AWS EC2 with Docker Compose, Caddy, CI/CD, and automated migrations.

Spec0 — Idea to Full Spec Package, AI Multi-Agent Pipeline — [\(LIVE\)](#)

- Built a **multi-agent AI specification platform** using 7 specialized LLM agents to transform product ideas into PRDs, architecture, security specifications, UI/UX documentation, and engineering backlogs in **under 2 minutes**; added provider-agnostic LLM integrations and Zod schema validation for structured outputs.
- Engineered **durable asynchronous workflows** with Inngest, including retries, idempotent recovery, lost-event handling, and live workflow metrics; implemented race-safe usage and payment controls using **Razorpay webhooks and atomic PostgreSQL upserts**.

PeakStreak — YouTube Playlists to Trackable Courses — [\(LIVE\)](#)

- Built a **learning accountability platform** that converts YouTube playlists into structured courses with progress tracking, finish-date projections, daily streaks, and GitHub-style activity heatmaps; implemented timezone-aware streak calculations and idempotent cron processing.
- Engineered automatic video progress tracking and **quota-efficient YouTube API usage** with server-side metadata fetching and 24-hour caching, reducing redundant API requests while maintaining responsive course creation.

TECHNICAL SKILLS

Languages TypeScript, JavaScript, Go, Python, SQL, C++

Frameworks React.js, Next.js, React Native, Node.js, Express.js, Hono, Tailwind CSS, shadcn/ui, BullMQ, Inngest

Databases PostgreSQL, Redis, MongoDB, MySQL, Drizzle ORM

Cloud/DevOps AWS EC2, AWS S3, Docker, GitHub Actions, Vercel, Caddy, Git

APIs/Payments Stripe, PayTabs, Razorpay, REST APIs

EDUCATION

Sunderdeep College of Management and Technology, BCA

2021 – 2024