

PRATEEK KUMAR MOHANTY

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SUMMARY

SDE-II with 4+ years building production **Node.js / TypeScript** backends. Specialize in API performance and microservice design — most recently cut hotel-search **p95 from 20 s to 300–700 ms (60×)** and shipped a hotel aggregator serving **1.2K records in under 10 s** on GCP. Comfortable owning systems end-to-end across backend, full-stack, and mobile.

WORK EXPERIENCE

SDE II, Pathfndr

Jan 2025 - Current

- Profiled hotel-search API where **p95 hit 20 s** under sequential fan-out to supplier APIs; redesigned with bounded-parallel fetch, Redis result cache, and per-supplier circuit breaker. **p95 dropped to 300–700 ms (60×)**, lifting bookings by **~25/day**.
- Designed and deployed **three microservices on GCP GKE** (Google Kubernetes Engine) replacing a monolithic edge service; auto-scaling and rolling deploys cut downtime to near-zero, isolated blast radius, and materially improved fault tolerance under peak load.
- Built hotel aggregator microservice fan-ing-out to **6 supplier APIs** with bounded concurrency and per-source caching; serves **1.2K hotels in <10 s p95**, replacing a path that previously timed out at peak.
- Built **AI-driven agent workflow** that automates new supplier-API integrations end-to-end; **cut onboarding time by 75%** (full integration shipped in 3 days vs. previous multi-week effort).
- Built production **RAG** ingesting multi-format docs (text, PDF, Excel, slides) into **Pinecone** with **OpenAI text-embedding-3-small**; serves natural-language hotel search at p95 **~10 s end-to-end** (retrieval + generation).
- Owned reliability of customer-facing API-key expiry notifications; replaced ad-hoc cron with idempotent scheduler + dead-letter queue, eliminating duplicate alerts and cutting support tickets from **~12/quarter to ~3/quarter**.

Full Stack Developer, Dextr Labs

Jul 2023 - Dec 2024

- Designed real-time **fantasy-sports game backend** (15–20 live events/day, 3–4 concurrent matches, **1K+ users per game**) on Node.js + GraphQL + MongoDB + Redis + AWS Lambda + Step Functions; powered live scoring via **Redis Pub/Sub + Server-Sent Events (SSE)**, chosen over polling for low-latency push without persistent-connection overhead.
- Shipped **RWA (Real-World Assets) NFT trading platform** on Node.js + GraphQL + TypeScript + MongoDB + AWS Lambda; integrated EVM smart-contract reads/writes (Ethers.js / Web3.js) with **Web3Auth non-custodial sign-and-submit**, using **nonce-based replay protection and tx-hash as idempotency key** on Ethereum / Polygon.
- Built **CI/CD on GitHub Actions + AWS ECR + EC2 (Docker)** replacing manual SSH deploys; cut deploy time from **45 min to 10 min** and enabled 50% faster release cadence.
- Refactored hot tables (**transactions, user_activity, game_match_history**) with composite indexes on key query paths; cut p95 query latency from **12 s to 5 s**.

Product Lead, Frifty

Jun 2022 - Jul 2023

- Owned end-to-end infrastructure (AWS + MongoDB Atlas) from scratch — set up VPC, IAM, and backups, and **built in-house analytics tooling** in lieu of paid monitoring; supported a **team of 5** to ship 5+ projects without dedicated DevOps headcount.
- Optimized React bundle via **lazy-loading and code splitting**, materially improving time-to-interactive on slower networks.
- Built **50+ reusable React components** as the company's internal **design system**, adopted across multiple products to accelerate new-screen development.

Product Developer, Aarna

Jun 2021 - Apr 2022

- Built real-time crypto portfolio dashboard aggregating prices for **10+ tokens** across **5+ exchanges** (Binance, Coinbase, KuCoin, Gemini, BitFinex) and **4 chains** (Ethereum, BSC, Polygon, AVAX); cut page TTI from **30 s to 5 s** via tuned polling.
- Designed Redis cache **keyed on user wallet address** to share block-explorer data (Etherscan / BSCscan / Polygonscan / Snowtrace) across 4–5 internal APIs, cutting third-party calls by **50%**.

Software Developer Intern, Milk Mantra

Sep 2020 - Mar 2021

- Integrated **three payment gateways** into MilkyMoo mobile app with idempotent retry + reconciliation, supporting platform growth to **5× subscriptions** and a sustainable **1M daily orders**.
- Took **MilkyMoo from zero to App Store in 3 months** as sole engineer.

EDUCATION

Bachelors in Technology (IT)

2018 - 2022

Odisha University of Research and Technology, Bhubaneswar

SKILLS

Languages: TypeScript, JavaScript, Python

Backend & Data: Node.js, NestJS, ExpressJS, HapiJS, GraphQL, REST, PostgreSQL, MongoDB, Redis, Pub/Sub

Cloud & Tooling: AWS (Lambda, Step Functions, ECS, ECR, S3), GCP (GKE, Cloud Run, Pub/Sub), CI/CD (GitHub Actions), Docker, Git

Other: React, Next.js, Flutter, RAG / LLM integration, Web3 (Ethers.js, Solidity, EVM)