Uday Singh

Full-Stack Engineer | Next.js, Node.js, Python, AWS
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SUMMARY

Full-stack engineer with 1.5 years shipping production systems end to end for international clients: **Next.js and React** frontends, **Node.js and Python** (FastAPI, Celery) backends, React Native apps, **AI assistants** with tool calls and streaming, and **AWS** deployments.

EXPERIENCE

KajKarma — Apr 2025 – Present
Full-Stack Software Engineer — *Remote*

InstaPath — Multi-Tenant Legal CRM (sole developer) | Next.js 15, MongoDB, Auth.js, Docker **2026**

- Built and shipped end to end: **63 pages** and **116 API route files (174 handlers)** over 36 MongoDB models, with a tenant-scoping ORM plugin that rejects any query without a tenant key.
- Enforced **auth at three layers** (edge JWT middleware, a withAuth wrapper on 97 route files with session eviction, role-aware UI) and shared **24 Zod modules** across 72 handlers and 21 components.
- Shipped with Docker standalone builds, Caddy and **GitHub Actions** (ECR deploy with health checks and rollback, 4 scheduled jobs), backed by **68 integration test scripts**.

Dalila & Uniglo Diamonds — AI Shopping Assistants | Next.js, Express, MongoDB, OpenAI, SSE **2025 – 2026**

- Built an **AI shopping assistant end to end**: an Express + OpenAI backend with **11 tools** (6 user-confirmed actions such as holds and appointments), guardrails, prompt caching and **SSE streaming** into a Next.js widget, with **422 Vitest cases**.
- Built Uniglo's assistant (15 endpoints, offline eval harness) and led the **177-page, 6-locale** Next.js marketplace around it.

SEOBrix — AI SEO-Audit SaaS | React 19, Express, Prisma, PostgreSQL, Python, AWS **2026**

- Built **Gmail and Zoho OAuth** end to end: encrypted tokens, single-flight refresh, a lead-email parser with 16 tests, and the React mailbox connect, review and compose UI with SSE progress.
- Delivered a **Python crawl service** (~9k lines, 127 tests) with exactly-once ingestion into PostgreSQL, and provisioned production AWS (EC2, RDS, ECR, CloudFront, IAM via GitHub OIDC).

YT-Seed — Creator Discovery Platform | FastAPI, Celery, Redis, MongoDB, OpenAI, React **2025 – 2026**

- Built a **FastAPI + Celery pipeline** (~8k Python lines) ranking creators with YouTube API discovery and LLM plus embedding scoring, a Redis ticket scheduler across Celery lanes, and a React dashboard tracking progress.

Uniglo Jewels — Storefront & Visual Search | Next.js 16, Medusa v2, pgvector, Stripe **2026**

- Shipped **AI visual search end to end**: image embeddings in **pgvector** inside a custom Medusa module (backfill, reconcile job, 18 tests), a rate-limited BFF proxy and an accessible crop UI.

PROJECTS

Loan Tracker — Lending App (client, sole developer) | Expo, React, Supabase PostgreSQL **2026**

- Built **two clients (Expo mobile + React web) on one Supabase backend**: RLS on all 5 tables, trigger-maintained balances, `auth.uid()`-checked RPCs and a pg_cron daily accrual job, with SQL as the source of truth.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL
Frontend: React 19, Next.js (App Router, Server Actions), TanStack Query, Redux Toolkit, Tailwind CSS, shadcn/ui
Backend: Node.js, Express, FastAPI, Celery, Prisma, Mongoose, Auth.js, Socket.IO, OpenAI tool calling
Data: MongoDB, PostgreSQL (RLS, pgvector), Redis, Supabase
Mobile: React Native, Expo, EAS
Cloud & DevOps: AWS (EC2, RDS, ECR, S3, CloudFront, IAM), Docker, GitHub Actions, Vercel, Amplify

EDUCATION

DSMS College of Tourism and Management — 2022 – 2025
*Bachelors in Computer Application – **CGPA – 8.9*** — *Durgapur, West Bengal*