Uday Singh

Backend Engineer | Node.js, TypeScript, PostgreSQL, MongoDB, AWS
Durgapur, West Bengal
+91-8900347620 | 7.yudee@gmail.com | yudee.dev | LinkedIn | GitHub

SUMMARY

Backend engineer with 1.5 years building production **Node.js and TypeScript** APIs for international clients, live with up to **1,000+ users**: multi-tenant SaaS, payment and OAuth integrations, idempotent job queues and scheduled syncs, **LLM features** with tool calling and streaming, and **AWS** deployments. Also ships Python services (FastAPI, Celery).

EXPERIENCE

KajKarma — Apr 2025 – Present
Full-Stack Software Engineer (backend-focused) — *Remote*

SEOBrix — AI SEO-Audit SaaS | Express 5, Prisma, PostgreSQL, pg-boss, AWS **2026**
- Delivered an **Express 5 + Prisma API** (94 routes, 26 models, 32 migrations) with JWT refresh tokens, **AES-256-GCM encrypted credentials** and HMAC-signed service callbacks checked within a timestamp window.
- Made the **pg-boss job queue idempotent** (one job per audit via singleton keys, retry limits, finished steps skipped on retry), with least-loaded routing and failover across crawlers, plus per-account spend caps and a cost ledger.
- Built **Gmail and Zoho OAuth** integrations: hashed one-time state with TTL, encrypted tokens, single-flight refresh, a revoked-grant reconnect flow and exactly-once email import.
- Provisioned **production AWS**: EC2, encrypted RDS PostgreSQL, ECR, least-privilege GitHub OIDC roles, SSM-only access, and nightly backups with a **passed restore drill**.

InstaPath — Multi-Tenant Legal CRM (sole developer) | Next.js, MongoDB, Mongoose, Zod **2026**
- Built **174 HTTP handlers** over 36 models, with a **tenant-scope plugin** that throws on any query missing a tenant key.
- Secured auth with **emailed one-time login codes** stored as SHA-256 hashes, DB-backed attempt limits and lockout, rate limits and session eviction; tenant purge reports are **HMAC-signed**.
- Used **MongoDB transactions** for invoicing, lead conversion and case creation, recalculated invoice totals on the server, and archived audit logs to S3 before deleting them; **68 test scripts**, deploys via OIDC to ECR.

Uniglo Diamonds & Dalila — B2B Diamond Trading APIs | TypeScript, Express, MongoDB, OpenAI **2025 – 2026**
- Delivered inventory APIs (**144 and 128 endpoints**) with scheduled supplier sync: retries with exponential backoff, discount-rule pricing, and **chunked bulk writes of 60k+ rows** under MongoDB's 16 MB limit.
- Built **LLM sales assistants end to end**: OpenAI function calling (10+ tools) streamed over **SSE**, user-confirmed idempotent writes, prices hidden from unauthorised users in the query itself, and an eval harness; **1,000+ tests**.

I Want Jewels & Aurelia Royale — E-commerce APIs | Express 5, Mongoose, Stripe, Zod, Vitest **2026**
- Built **multi-currency Stripe checkout**: a daily FX rate with de-duplicated fetches and last-good fallback, per-order currency snapshots, minor-unit amounts, and gift cards keyed so **webhook retries are safe**.
- Built per-field **LLM product translation** with JSON validation, source-hash skipping and an idempotent backfill with cost dry-runs; **82 owner-written Vitest cases** across both APIs.

Naval & GoldLink — Mobile App Backends | Express 5, MongoDB, Redis, Socket.IO, FCM **2026**
- Built **refresh-token rotation** (hashed tokens with jti; reuse revokes every session), an IST-correct monthly payroll close that backfills missing rows, cron heartbeat diagnostics and health-gated deploys to Lightsail.
- Built **Socket.IO chat** sharing JWT auth with REST, **Redis JWT blacklisting** and the FCM push-token lifecycle.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, Python
Node.js: Express 5, Next.js route handlers, Prisma, Mongoose, Zod, Auth.js, Socket.IO, pg-boss
Data: PostgreSQL, MongoDB (transactions, bulk writes), Redis
Integrations: Stripe, OAuth 2.0 (Gmail, Zoho), OpenAI (function calling, structured output, SSE), FCM
Cloud & DevOps: AWS (EC2, RDS, ECR, S3, CloudFront, IAM, SSM, Lightsail), Docker, GitHub Actions
Testing & Other: Vitest, Mocha/Chai, Python (FastAPI, Celery), React, Next.js

EDUCATION

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