

ALOK SINGH

9335929565 | aloksingh1st@gmail.com | [GitHub](#) | [LinkedIn](#) | Ahmedabad, India (Remote Open)

PROFESSIONAL SUMMARY

Backend Engineer with 2+ years building production-grade systems in **Laravel** and **PHP**. Experienced in REST API design, async queue pipelines, and enterprise integrations (Microsoft Dynamics 365, Workday). Built greenfield systems from architecture through delivery in a fast-paced startup. Side projects in Node.js and TypeScript including a shipped multi-tenant auth platform with npm SDK. Targeting Laravel backend roles where I can own core API infrastructure and system design.

TECHNICAL SKILLS

Languages: PHP, JavaScript, TypeScript

Backend: Laravel, Laravel Horizon, Node.js, Express.js, REST APIs, RabbitMQ, Redis, Queue Systems

Databases: MySQL, PostgreSQL, Redis

DevOps & Infra: Docker, AWS S3, Laravel Pulse

Frontend: React.js

EXPERIENCE

Software Development Engineer — Simpel AI

Feb 2024 – Present

Lucknow, India

- Led end-to-end greenfield development of **Aptia MyTime**, an enterprise workforce management platform serving **4,000+ users** with **2,500+ active** timesheet submissions across **10+ core modules** including timesheets, approvals, compliance tracking, project management, auto allocation, D365 sync, and Workday sync.
- Designed and built **asynchronous job processing pipelines** using **Laravel Horizon** and **Redis** from scratch, processing **10K+ jobs/day** with retry orchestration, exponential backoff, and **DLQ** handling.
- Integrated **Microsoft Dynamics 365** and **Workday** pipelines for financial sync, billing, and HR data synchronization — achieving **near 100% success rate** with individual failure capture and visibility via a dedicated **log module**.
- Developed backend systems handling **20K+ requests/day** with reporting, compliance tracking, and email notification pipelines.
- Built custom **cron monitoring system** using **Laravel Pulse** and cache-based tracking with **email alerting** and dynamic cron configuration module — reducing production issue detection time from **hours to minutes**.
- Stored and served static assets via **AWS S3**. Onboarded and mentored new engineering joiners on queue architecture and async patterns.

PROJECTS

Distributed Notification System | *JavaScript · RabbitMQ · Redis · PostgreSQL · Prometheus · Grafana* | [GitHub](#)

- Built from scratch with **RabbitMQ** message broker, **Redis**-backed idempotency (SET NX), and **circuit breaker** pattern (opossum) with closed/half-open/open state transitions.
- Implemented **4-stage exponential retry queues** (5s → 30s → 120s → 600s) with **DLQ** persistence in PostgreSQL and full **Prometheus + Grafana** observability stack.

Nirva — Multi-Tenant Auth Platform | *TypeScript · Node.js · Express · PostgreSQL · npm SDK* | [nirva.dev](#)

- Shipped a **multi-tenant authentication platform** — one secret key for all OAuth providers (Google, GitHub, etc.) eliminating per-project OAuth setup overhead.
- Published **npm SDK** that scaffolds complete auth into React/Vite projects via single CLI command — login routes, token handling, and OAuth flows under **5 minutes**.

Leetstart — Coding Platform | *React.js · Express.js · Judge0 · PostgreSQL · TailwindCSS* | [leetstart.in](#)

- Built full-stack coding platform with **sandboxed code execution** via **Judge0**, async submission queuing, and real-time verdict delivery.

PROBLEM SOLVING

- Solved **510+ problems** on LeetCode (**61 hard**), peak rating **1622**. Strong in Dynamic Programming, Graphs, Trees, BFS/DFS, Union-Find, Segment Tree.
- Active in weekly LeetCode and Codeforces contests. Targeting **1750+** rating via structured contest training and upsolving.

EDUCATION

Kanpur Institute of Technology, Kanpur

2020 – 2024

Bachelor of Technology (B.Tech) in Information Technology | CGPA: 7.5/10