

CHANDAN KUMAR NAYAK

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PROFESSIONAL SUMMARY

Backend Developer with 6+ years of experience designing and building scalable ERP, E-Commerce, Cab Booking, and AI-powered systems. Specialized in Laravel and CodeIgniter architectures, real-time applications, and LLM integrations including RAG pipelines, semantic retrieval, and agent-based workflows. Passionate about system design, performance optimization, and building production-grade backend infrastructure.

TECHNICAL SKILLS

- **Programming Languages:** PHP, JavaScript
- **Backend & Frameworks:** Laravel, CodeIgniter, NativePHP, Livewire
- **AI & LLM Stack:** RAG Pipelines, Semantic Search, Vector Embeddings, Tool-Use Agents, Memory Systems, Multi-Turn Conversation Architecture, Prompt Engineering, Structured Outputs
- **Real-Time & Scalability :** Queues, Events, Broadcasting, WebSockets, Reverb
- **Frontend:** HTML5, CSS3, Blade, Tailwind CSS, jQuery, AJAX, Alpine.js, Vue.js
- **Databases:** MySQL, SQLite
- **API and Architecture:** RESTful APIs, MVC Architecture, Object-Oriented Programming (OOP), Third-Party API Integrations, Google APIs, OAuth Authentication
- **DevOps & Tools:** Git, Bitbucket, GitHub Actions (CI/CD), AWS, Postman, cPanel, VS Code, MySQL Workbench, Herd, Cursor

WORK EXPERIENCE

PHP Developer — K One Ventures, Bhubaneswar

April 2024 — Present

- Designed and developed ERP modules (Teacher Appraisal, Micro Scheduling, Lesson Plan, Inventory Management, Complaint Management, Asset Management, Hostel and Hospitality Management) used by 3,000+ teachers across 20+ schools, improving operational efficiency and reducing manual workload.
- Engineered a constraint-based timetable automation system, reducing scheduling time from weeks to under 15 minutes through optimized allocation logic and load balancing.
- Built Compass, an AI-powered in-app assistant for troubleshooting and developer guidance, significantly reducing support dependency and improving user experience.
- Integrated Zoom APIs for automated scheduling and online class management workflows.

PHP Developer — Colourmoon Technology, Visakhapatnam

March 2022 — April 2024

- Developed a real-time cab booking platform with live driver tracking and dynamic location updates.
- Integrated multiple payment gateways (Razorpay, Stripe, PhonePe, Cashfree) and automated driver payout workflows using RazorpayX.
- Built a modular e-commerce platform supporting POS, coupon systems, multi-store inventory, and complete order lifecycle automation.

IT Executive — OSL Prestige Pvt. Ltd, Bhubaneswar

June 2020 — February 2022

- Developed an IT Asset Management System to track and manage organizational infrastructure.
- Improved internal processes through system digitization and automation.

PROJECTS

- Built **Aadya AI** — a full-stack AI personal assistant with mobile app (NativePHP Mobile 3) and Laravel 13 backend. Architected an agentic system using Laravel AI SDK with tool-use, persistent memory via RAG (Pinecone + semantic search), and a background Memory Gatekeeper agent that auto-extracts and classifies memories per conversation turn. Implemented per-user vector namespace isolation, temporal memory classification, TTS response generation, and non-blocking queue architecture for real-time response speed. Integrated weather forecasting and Google APIs (Calendar, Gmail, Tasks), enabling Aadya to read emails, manage calendar events, and perform task management through agent-callable actions.

EDUCATION

B.Tech in Computer Science and Engineering — Gandhi Institute For Technology, Bhubaneswar

(2015 — 2019)