

Saurabh Singh

Senior Full-Stack Engineer | Backend & Laravel Specialist | AI Integration

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PROFESSIONAL SUMMARY

Full-stack software engineer with 6+ years of experience designing, building, and shipping scalable, production-grade web and mobile applications. Backend and Laravel specialist with deep expertise across the PHP, Node.js, and Python ecosystems, complemented by React and Next.js on the frontend and AWS cloud architecture in production. Increasingly focused on AI integration — building RAG pipelines, vector search infrastructure, and agentic workflows that solve real engineering problems. Proven track record of improving system performance, reducing infrastructure cost, and delivering reliable services at 99.9% uptime.

TECHNICAL SKILLS

Backend: Laravel, PHP, Node.js, Express.js, Python, FastAPI, RESTful APIs, Microservices

Frontend: React, Next.js, Nuxt.js, TypeScript, JavaScript, Tailwind CSS

AI / LLM: RAG Pipelines, Vector Search, Pinecone, OpenAI Agents SDK, LLM Integration, Agentic Workflows

Cloud & DevOps: AWS (Lambda, S3, API Gateway, CloudFormation), Docker, CI/CD, SSO / OAuth

Databases: MySQL, PostgreSQL, MongoDB, Redis, SQLite

Mobile: Swift (iOS), Java, Kotlin (Android)

Tools & Search: Typesense, Socket.IO, Git, Payment Gateway Integration, Third-Party API Integration

PROFESSIONAL EXPERIENCE

Software Engineer

Nov 2022 – Present

Focalworks Solutions Private Limited — Mumbai, India

- Developed and maintained scalable full-stack applications using Laravel, React.js, Next.js, and Nuxt.js, accelerating project delivery timelines by 20%.
- Designed and implemented AWS-based cloud infrastructure with CloudFormation, Lambda, S3, and API Gateway, achieving high availability and optimizing operational costs.
- Implemented enterprise SSO authentication systems and secure access workflows for client applications.
- Optimized backend APIs and database interactions, resulting in 30% faster application response times and improved scalability.
- Played a key role in mobile application delivery for Trualta using Capacitor for Android and iOS, handling testing, release preparation, and deployment coordination.
- Researched and prototyped AI-driven solutions for internal automation and external client use cases, staying aligned with current advancements in generative AI and developer tooling.
- Worked closely with cross-functional teams including product, design, QA, and DevOps to deliver reliable cloud-native applications.

iOS App Developer & Backend Developer

Apr 2021 – Oct 2022

NetWeb Tech — Mumbai, India

- Built and maintained backend systems with Laravel, Node.js, and PHP, ensuring high availability and scalability across 10+ client projects.
- Designed relational database schemas and optimized queries, improving overall system performance by 35%.
- Engineered secure backend APIs in PHP and Node.js, cutting data processing time by 40% and enhancing data-exchange reliability.
- Contributed to the development of 5+ iOS applications, delivering high-quality, performant, user-friendly interfaces through to the client handoff stage.
- Integrated payment gateways and third-party APIs, expanding product capabilities without compromising security.

S.R. Software Solutions — Mumbai, India

- Developed and deployed 10+ Android applications to the Google Play Store using Java and Kotlin, ensuring Play Store compliance and seamless user experiences.
- Built and delivered Android and web solutions with Node.js, Laravel, and Core PHP, serving 15+ clients across diverse industries.
- Reduced bug-resolution time by 40% through proactive QA testing and automation scripts.
- Optimized web performance, reducing page load time by 2.5 seconds and improving SEO scores.
- Built RESTful APIs enabling smooth integration between mobile apps and web platforms.

SELECTED PROJECTS

Laravel Docs RAG Assistant

An intelligent assistant for conversational Q&A over uploaded documents, initially focused on Laravel documentation. Implements retrieval, vector indexing, and conversation flow — directly combining Laravel backend expertise with modern AI retrieval pipelines.

Python · RAG · Vector Search · LLM APIs

URL Content Embedding System

End-to-end pipeline that crawls URLs, summarizes content with AI, and stores vector embeddings in Pinecone for semantic similarity search. A strong example of production-style vector search infrastructure.

Python · Pinecone · Vector Embeddings · AI Summarization

MySQL Agent (OpenAI Agents SDK)

A natural-language agentic interface that runs intelligent operations over relational MySQL data using the OpenAI Agents SDK. Demonstrates agentic patterns relevant to data copilots and analytics assistants.

Python · MySQL · OpenAI Agents

Distill — YouTube Content Pipeline

Distills any YouTube video into a transcript, summary, and blog post, turning long-form video into structured, readable formats. A practical AI tool for content creators and knowledge workers.

TypeScript · AI · YouTube API

Typesense Product Search (Laravel)

A Laravel-based product search application integrating Typesense for fast, typo-tolerant product discovery, with product indexing, relevance tuning, and a modern search UX.

Laravel · Typesense · Blade

Tripster — Hotel Booking Platform

A production-style hotel booking platform with advanced search, filtering, rich property pages, and a polished multi-step booking flow built on modern frontend patterns.

Next.js · TypeScript · Tailwind CSS · NextAuth.js

EDUCATION

Master of Computer Applications (MCA), Computer Science

2019 – 2021

Lovely Professional University

ADDITIONAL

Languages: English, Hindi, Punjabi

Technical Blog: thakurcoder.com — technical deep-dive articles on backend engineering, distributed systems, and AI.