

SWASTIK CHOUHAN

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of proven experience designing and deploying scalable production systems. Expert in backend architecture, REST API, and distributed systems with hands-on expertise in Java Spring Boot, Python Flask, and Node.js. Proficient in modern frontend technologies Next.js and DevOps practices. Passionate about building and solving complex architectural challenges.

PROFESSIONAL EXPERIENCE

Z1Tech | Software Developer | Gurgaon, India

March 2025 - Present

- **AI Chatbot Platform:** Architected and deployed an anime-based multi-bot chat application using Python (Flask), OpenAI GPT, Redis Vector Store, FAISS, and RAG for character-driven conversations. Implemented real-time event streaming, custom analytics for user interactions and bot performance, and integrated monetization through ads—deploying to hundreds of active daily users with NLP-enhanced dialog quality.
 - **Insurance Leads Platform:** Developed multi-page Next.js application using App Router with dynamic routing patterns. Designed modular, config-driven component architecture reducing code duplication by 40%. Optimized platform for insurance lead aggregation and dashboard management aligned with third-party integrations (LeadExec, RedTrack).
 - **Campaign Creation Tool:** Engineered a high-performance campaign automation tool using Python, MySQL, Redis, and WebSockets generating 10,000+ ad campaigns daily (Google Ads, Taboola) with webhook notifications and in-house media assets. Optimized OpenAPI batch processing reducing setup time by 90% (8 min → 48 sec), leveraging ML insights for improved campaign quality and generation speed. streamlining media buying automation and campaign workflows.
- Technical Stack:** React.js, Next.js, Python, Flask, OpenAPI, MySQL, Tailwind CSS, JavaScript, PHP/Laravel, ClickHouse

Gmagica Technologies Pvt Ltd | SDE | Delhi, India

June 2023 - March 2025

- **Architecture & Development:** Designed and implemented a comprehensive REST API suite for order placement, shipment updates, and status tracking. Architected asynchronous workflows using Kafka for order, inventory, and shipping services, improving system scalability and reducing response times by 25%.
 - **Performance Optimization - Database & Caching:** Optimized database queries through strategic indexing and implemented caching layer, achieving 35%+ reduction in order retrieval latency. Analyzed query execution plans and refactored N+1 problems, improving throughput from 200 to 500+ requests/second.
 - **Reliability & Consistency:** Built idempotent APIs with retry logic and circuit breaker patterns to prevent duplicate transactions in high-traffic environments. Implemented Saga pattern for distributed transaction management ensuring cross-service data consistency across order, payment, and inventory services.
 - **Scalability & High-Availability:** Designed system to handle 10,000+ concurrent orders with zero data loss. Implemented connection pooling and load balancing strategies, achieving 99.9% uptime in production.
- Technical Stack:** Java 11+, Spring Boot (Data JPA, Web, Cloud), Apache Kafka, Redis, MySQL, REST APIs,

CORE COMPETENCIES

- **Backend Development:** Java (SpringBoot & Data JPA), Node.js, Python (Flask, FastAPI), REST APIs,
- **Database & Caching:** MySQL, PostgreSQL, Redis (Queue System, Workers, Vector Store), ClickHouse, FAISS,
- **Frontend Development:** JavaScript (ES6+), React.js, Next.js, TypeScript, Tailwind CSS
- **Tools & Platforms:** Git, Bitbucket, OpenAPI, Docker, Apache Kafka, WebSocket (SSE & Socket.io)
- **AI/GenAI:** OpenAI GPT-4o API, Retrieval-Augmented Generation (RAG),

EDUCATION

Bachelor of Technology (B.Tech) in Information Technology | SGSITS, Indore (RGPV University)

August 2019 - July 2023

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Computer Networks, Database Management Systems, Software Engineering, System Design.