

Nitesh Kumar Mehta

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PROFILE SUMMARY

High-impact Software Engineer with 2+ years of experience architecting highly concurrent distributed systems and production-grade Agentic AI pipelines. Slashed API latency by 45% and reduced database load by 60% at CHUBB through advanced microservices optimization. Proven ability to drive complex architectural requirements into scalable, fault-tolerant backend solutions using .NET Core, Kafka, and LangChain.

PROFESSIONAL EXPERIENCE

Software Engineer, CHUBB India

Sep 2023 – present | Hyderabad, India

- Slashed API latency by 45% and supported 5,000+ concurrent requests/hour by architecting low-latency .NET Core microservices through async I/O tuning and database access pattern refinements.
- Decreased database load by 60% and accelerated static data retrieval by 3x by implementing a multi-layer distributed caching strategy utilizing Redis and in-memory optimizations.
- Achieved 99.8% reliability for multi-region claim processing workflows by engineering fault-tolerant, event-driven Kafka pipelines featuring idempotent consumers and DLQ routing.
- Reduced incident detection and resolution time by 70% by deploying comprehensive Azure Application Insights observability infrastructure and developing a dynamic middleware FileNoteAPI for enterprise claim-processing.

PROJECTS

StackPilot - Agentic AI App Builder, •Python •RAG •Langchain •Multi-Agent LLM

- Reduced prototype engineering effort by 80% for mid-scale applications by developing an autonomous 3-agent LLM system (Planner, Architect, Coder) using Python and LangChain.
- Accelerated cross-agent task throughput by architecting scalable prompt orchestration and inter-agent communication pipelines that simulate a complete end-to-end SDLC.
- Validated enterprise-grade AI architecture capabilities by engineering execution pipelines across 3 specialized agents to ensure high-reliability automation.

LoksewaGeeks - Digital Education Platform 🌐, •Python •NextJS• Postgresql •OAuth • System Design

- Scaled digital education platform to support 5,000+ projected MAU by architecting modular distributed services across multi-exam domains using Python, Next.js, and PostgreSQL.
- Enhanced performance tracking for 1,000+ mock questions by engineering a high-performance test engine featuring accuracy analytics and ML-backed personalized recommendations.
- Guaranteed 100% user isolation across multi-tenant environments by implementing Google OAuth, strict Role-Based Access Control (RBAC), and high-concurrency discussion architectures.

TECHNICAL SKILLS

Technical Domains: Agentic AI, RAG, Prompt Engineering, LLM Orchestration, Microservices, Event-Driven Design, REST APIs.

Languages: Python, Java, C#, C++, JavaScript.

Frameworks & Libraries: .NET Core, Spring Boot, Next.js, Angular, React, LangChain, CrewAI, Claude Code.

Tools, Cloud & DBs: Azure (Functions, Service Bus, App Insights), Kafka, Redis, Docker, Kubernetes, Git, PostgreSQL, MongoDB, Azure SQL, MySQL.

Certifications: Claude 101 - Anthropic (LLM agent tooling & prompt engineering).

EDUCATION & ACHIEVEMENTS

- B.Tech Computer Science and Engineering** | Kalinga Institute of Industrial Technology (2020-2024) | CGPA: 9.13/10.
- Ranked top 7% globally (#1,532 of 22,000+) in Google Kick Start 2022.
- Solved 3,000+ DSA problems across LeetCode, GFG, and CodeChef.