

SUDHANSHU SINGH

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EDUCATIONS

National Institute of Technology, Patna | Patna, Bihar
B.Tech - Electronics and Communication Engineering
• **CGPA: 8.37/10**

Jul 2021 - May 2025
CGPA : 8.37/10

WORK EXPERIENCES

Software Engineer - 1 | Full-time
Bellpost

Sep 2025 - Present
Remote • Gurugram, Haryana

- **Built** an end-to-end **order management system** with webhook-driven asynchronous workflows and message queues, handling **hundreds of weekly transactions**.
- **Architected** an **AI content-generation pipeline** integrating **Claude, RunwayML, and Heygen**, increasing content throughput by **200%** through webhook-driven asynchronous processing.
- **Built** an asynchronous **Algolia indexing pipeline** using message queues, enabling **near-real-time search updates** and low-latency queries across **10k+ records**.

Technologies / Skills Used : Java, Spring Boot, SQS, Message Queues, Redis, Distributed Locking, MongoDB, MySQL

Backend Intern | Internship
Bellpost

Mar 2025 - Sep 2025
Remote • Gurugram, Haryana

- Architected a real-time event ingestion and recommendation pipeline using AWS Kinesis, API Gateway, Lambda, S3, Spring Boot, and Amazon Personalize, processing **1M+ events/day** with **<100ms latency**.
- Built scalable asynchronous processing workflows with Redis caching and distributed locking, ensuring high performance and data consistency across distributed services.

Technologies / Skills Used : AWS Kinesis, API Gateway, Lambda, Spring Boot, Redis, S3, MongoDB, MySQL

PROJECTS

ScoutMind - Autonomous AI Research Engine | 🌐 Github 🌐 Website

- **Architected** a **9-stage agentic AI** research pipeline using **LangGraph**, orchestrating AI agents for problem decomposition, multi-step web research with **Tavily**, pain-point extraction, competitor and market-gap analysis, and **ranked idea generation across 8 evaluation dimensions**, with real-time workflow streaming.
- **Engineered** a fault-tolerant **multi-provider LLM orchestration layer** using **OpenRouter, Gemini, and Groq**, with per-stage model routing, automatic failover, and exponential-backoff retries.

Technologies / Tools Used : Python, FastAPI, LangGraph, LLMs, SQLAlchemy, MySQL, WebSockets, Docker, JavaScript

Voyage - an AI-powered travel planning system | 🌐 Github 🌐 Website

- **Architected** an **agentic AI** travel planning pipeline using **LangGraph**, orchestrating multiple agents for intent classification, parallel tool execution with **Tavily Search** and weather APIs, context aggregation, and LLM-based itinerary generation. Built structured extraction to reliably extract **13+ travel parameters** from natural language inputs.
- **Implemented** an automated itinerary evaluation pipeline scoring outputs **0-100** across 5 quality dimensions, with threshold-based retries for low-quality outputs. Added **SSE streaming**, timeout guards, and fallback handling for resilient real-time generation.

Technologies / Tools Used : TypeScript, LangGraph, MySQL, OpenRouter, Next.js, Google OAuth

SKILLS

Databases :	PostgreSQL, MySQL, MongoDB, Redis
Frameworks & Libraries :	Spring Boot, JPA, Hibernate, React.js, Next.js, Express.js, Node.js
Programming Languages :	Java, Python, C++, JavaScript, TypeScript
Tools & Platforms :	AWS, Git, GitHub, Postman, Jira, Visual Studio Code, Spring Tool Suite, Docker, GitHub Actions

AWARDS & ACHIEVEMENTS

- **Knight** on Leetcode with max rating 1959 ([sudhanshu1182](#))
- **Specialist** on Codeforces with max rating 1577 ([sudhanshu_singh1182](#))
- **3 star** on Codechef with max rating 1673 ([sudhanshu_1182](#))
- **5 kyu** on Atcoder ([sudhanshu_s1182](#))