

Ramandeep Singh

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EXPERIENCE

Hero FinCorp, Software Engineer - 1

07/2025 – Present | Delhi

- Architected and built the Banking Analysis microservice — a core service in the ELM platform that orchestrates AA journey, consent collection, and BRE decisioning to determine limit enhancement eligibility for pre-approved loans.
- Developed a real-time conversational AI prototype using LiveKit, TTS/STT, and LLM orchestration for voice-based customer interaction workflows.
- Designed and proposed a cost-optimised API orchestration sequence for the pre-qualified loan journey, reducing per-customer third-party spend by ~57% compared to the earlier bureau-first flow.
- Sole developer responsible for ~80% of the pre-qualified loan journey end-to-end (backend + frontend).
- Implemented circuit breaker patterns across microservices to improve fault tolerance and resilience during downstream service failures.
- **Tech Used:** Java, Spring Boot, LangChain, Livekit, TTS/STT, React, Typescript, Microservices, AWS Lambda, AWS Cognito, AWS SQS, CloudWatch, Circuit Breaker, PostgreSQL, JMeter, Kibana, REST APIs, Jira

Mapsense, SDE Intern

07/2024 – 06/2025 | Remote

- Built a dynamic query builder for location-based searches improving query execution efficiency by 60%.
- Implemented spatial analysis features — heatmaps, clustering, and Buffer Analysis on map layers — improving spatial accuracy by 40% and enabling interactive geospatial data visualisation at scale.
- Developed a map annotation system for real-time commenting on geospatial features, enhancing cross-team collaboration.
- **Tech Used:** React, TypeScript, Redux, OpenLayers, Deck.gl, Turf.js, Chroma.js, Git, Jira

SKILLS

Languages: Java, Python, TypeScript, C++, SQL

AI / Agentic: LangChain, LangGraph, LangSmith, Livekit, MCP, Vector Search, Embeddings, TTS/STT, NLP

Backend: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Microservice, JWT, Redis

Frontend: React, Next.js, Redux, Tailwind CSS

Cloud: AWS (Lambda, Cognito, SQS, CloudWatch, S3), CI/CD, Git, Jenkins

Database: PostgreSQL, MongoDB, MySQL

PROJECTS

Documind ,

04/2026 – Present

Python, FastAPI, LangChain, Gemini 2.5 Flash, ChromaDB, Redis, RAG, BM25

- Built an AI document intelligence platform using Hybrid RAG (Vector Search + BM25) and LangChain to enable accurate context-aware document Q&A.
- Implemented semantic caching and Redis-based session memory, reducing repeated-query latency by 98% and optimising LLM inference costs.

GitHub Repo Manager ,

11/2024 – 12/2024

React, TypeScript, Express, GitHub OAuth, Gemini API

- Built a real-time repository management system with GitHub OAuth, infinite scrolling, and CRUD on repository metadata.
- Integrated Gemini API for AI-powered code reviews, commit graph visualisation, keyboard shortcuts and visitor analytics.

EDUCATION

Harcourt Butler Technical University,

Kanpur, Uttar Pradesh

Bachelor of Technology in Information Technology (CGPA-8.7)

ACCOMPLISHMENTS

- Solved 600+ DSA problems across LeetCode, Codeforces, and GeeksforGeeks.
- Winner at Inter-college hackathon; built a farmer's assistance platform addressing agricultural access challenges.