

Himanshu Thakur

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SUMMARY

Senior Backend Engineer with **3+ years** building distributed, high-availability systems in fintech. Scaled Advisor Gateway platform **30x (500 → 15,000 advisors)** at Wells Fargo. Distributed systems portfolio: **Go-based distributed load balancer** (health-check probing, automatic failover); **geospatial ride-matching backend** (Redis GEO + Pub/Sub, **sub-200ms P95** driver lookup); **distributed file-sync** with conflict-resolution guarantees. Strong in **Go, Python, FastAPI, event-driven architectures, AWS, Kubernetes**. MLH Fellow 2022; Multi-hackathon winner.

EXPERIENCE

Senior Software Engineer — Wells Fargo, Bengaluru

July 2023 – Present

- Developed the **Client Management Application (CMA)** on Advisor Gateway using Salesforce (Apex, Lightning Web Components, Flows), scaling the platform from **500 → 15,000 active financial advisors (30x)**.
- Built an **NLP document-summarization pipeline** (DistilBERT) integrated with Salesforce via REST callouts; reduced advisor document-processing time by **30%** across 10k+ documents/day.
- Delivered an **AI-powered Next-Best-Action recommendation feature** surfacing insights from client meeting notes and portfolio data, boosting advisor productivity by **25%**.
- Shipped a **GPT-4 + LangChain micro-frontend** embedded inside Salesforce CMA automating routine advisor workflows for 15,000+ users, reducing manual effort by **~20%**.
- Awarded **Top Achiever 2025** (company-wide) and **Winner of Wells Fargo Technology Hackathon** (India & Philippines editions, 2025).

Software Engineering Intern — Datahive Labs (Remote)

December 2021 – June 2022

- Engineered a cross-platform **Primary Diagnosis Application** (Node.js + MongoDB) connecting patients with doctors; increased patient-doctor interaction rate by **40%**.
- Implemented a **collaborative-filtering recommendation engine** for personalised clinical content delivery, boosting daily-active-user engagement by **35%**.
- Automated AWS cloud resource provisioning (Lambda + Terraform); improved backend response times by **20%** and cut operational overhead.

PROJECTS

Distributed Ride-Matching Backend

FastAPI · Redis GEO · DynamoDB · Pub/Sub · WebSockets

- Built real-time geospatial driver discovery using Redis **GEOADD / GEORADIUS**; modelled full ride lifecycle with **sub-200ms P95 driver lookup**.
- Event-driven assignment flow with Pub/Sub; designed for horizontal scalability under high concurrent-ride load.

Distributed File Synchronisation System

Go · File Watchers · Diff-based Sync · Conflict Resolution

- Event-driven file sync with **chunk-level diffs**; modelled after Dropbox's eventual consistency approach.
- Implemented **conflict-resolution** guarantees across distributed clients with zero data loss under concurrent writes.

Distributed Load Balancer

Go · Docker · Redis Pub/Sub · Health Checks · Round-Robin

- From-scratch load balancer in **Go**: round-robin + weighted routing, health-check probing, automatic failover, pluggable strategy interface.

Email Orchestrator with Document Triage

FastAPI · GPT-4 · OpenAI Embeddings · MongoDB Atlas Vector Search · Kubernetes

- Classified financial emails using **GPT-4 few-shot learning**; reduced redundant LLM calls by **40%** via cosine-similarity caching (threshold >0.95) in MongoDB Atlas Vector Search.
- Scaled with FastAPI async workers + Kubernetes HPA for spiky email volume.

TECHNICAL SKILLS

Languages: Go · Python · TypeScript · JavaScript · Apex (Salesforce)

Distributed Systems: Event-driven architecture · Pub/Sub · Geospatial indexing · Caching · Fault tolerance · Consensus

Backend: Microservices · REST APIs · FastAPI · GraphQL · gRPC · Node.js · Express

Cloud & DevOps: AWS (Lambda, EC2, S3, DynamoDB) · GCP · Kubernetes · Docker · Terraform · CI/CD

Databases: PostgreSQL · MongoDB Atlas · Redis · DynamoDB · MySQL · Neo4j

AI / ML: LangChain · GPT-4 · OpenAI Embeddings · Vector Search · DistilBERT · PyTorch

Salesforce: Lightning Web Components (LWC) · Apex · Flows · REST Callouts

EDUCATION

B.Tech, Information Technology — National Institute of Technology, Kurukshetra | 2019 – 2023 | CGPA: 9.01 / 10

TECHNICAL WRITING

- [Building a Distributed Ride-Matching Backend \(Uber-Style\)](#) (May 2026)
- [Designing a Dropbox-like File Sync System: What Actually Makes It Hard](#) (Apr 2026)
- [Building a Distributed Load Balancer from Scratch](#) (Feb 2026)
- [Design Patterns for Real Backend Engineers — Factory Method](#) (Jan 2026)
- [Why Every Backend Engineer Must Learn Design Patterns — Singleton](#) (Jan 2026)

ACHIEVEMENTS

- **Top Achiever Award 2025**, Wells Fargo — company-wide engineering excellence recognition.
- **Winner, Wells Fargo Technology Hackathon 2025** — India & Philippines editions.
- **Winner, Replit x Hexaware Hackathon 2025** — production-grade AI agent under 24 hours.
- **MLH Fellow 2022** — Major League Hacking Fellowship (~5% global acceptance rate).
- **1st Place, AI Crowd ML Hackathon 2021** — ranked #1 / 100 across classification, regression, and CV.
- **Runner-up, Productathon, NIT Kurukshetra 2020** — Smart Traffic Light System with Python + OpenCV.