

Yudhvir Singh

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EDUCATION

GURU KASHI UNIVERSITY

MASTERS IN COMPUTER

APPLICATION

Grad. May 2025

LINKS

LinkedIn: [Yudhvir](#)

TECHNICAL SKILLS

LANGUAGES

- C++
- PHP
- Python
- JavaScript

FRAMEWORKS

- Laravel
- Vue.js
- Inertia
- FastAPI
- LangChain / LangGraph

AI / LLM

- LLM APIs (OpenAI, Gemini, Claude)
- RAG pipelines (retrieval, vector search)
- AI agents & MCP
- Prompt engineering
- Ollama (local LLM inference)
- Hugging Face

DATABASES

- MySQL
- ClickHouse
- Postgres
- Vector DB (e.g. Chroma/Pinecone)
- Neo4j (graph)
- MongoDB
- Redis

DEVOPS / INFRA

- Docker & Docker Compose
- Kubernetes
- Terraform
- GitHub Actions (CI/CD)
- AWS (EC2, S3, ECS/EKS)
- Nginx (reverse proxy)
- Prometheus & Grafana

EXPERIENCE

ATULAYA | SOFTWARE ENGINEER

November 2025 – Present | Sec 82, Mohali, Punjab

- Owned SAP Business One integration across finance workflows — automated reconciliation and a duplicate-posting defense system that eliminated recurring financial errors.
- Delivered end-to-end features (Laravel, Vue/Inertia, MySQL/ClickHouse), from data pipelines to production dashboards, with finance and lab-ops stakeholders.

Jun 2024 – Jul 2025 | Sec 82, Mohali, Punjab

- Built an IT and biomedical asset lifecycle platform (Laravel/Nova) used across 15 branches — assignment, repair, and warranty tracking with an AMC/CMC service-contract subsystem — then converted to full-time December 2024.
- Delivered internal dashboards and automation tools across departments.

INTERNAL PROJECTS

SAP FINANCIAL OPERATIONS DASHBOARD

- Built an automated SAP balance reconciliation and posting system, fixing race-condition bugs that caused duplicate/lost financial entries.
- Designed a duplicate-posting defense layer (dedupe, alerting, daily audit jobs) and an IT asset management module with role-based access.

BUSINESS ANALYTICS PLATFORM

- Built a BI platform on ClickHouse ingesting SAP/lab data via ETL, powering Sales, Lab Ops, and Radiology TAT dashboards.
- Designed a SAP HANA connection and reagent consumption model to reconcile lab test usage against stock, exposing coverage gaps.

MY PROJECTS

AXIOM — AUTONOMOUS AI SOFTWARE ENGINEER [link](#)

Python, FastAPI, LangGraph, Tree-sitter, MCP, Postgres, Vector DB, Docker

- Built an autonomous coding agent that plans fixes, edits code, and iterates through a test-fix loop until tests pass.
- Wrote custom MCP servers (filesystem, git, shell) and a Tree-sitter project index for symbol-level code navigation.
- Added dual-memory recall (Postgres + vector DB) and a benchmark suite tracking success rate, cost, and retries.

DOCKYARD — SELF-HOSTED DEPLOYMENT PLATFORM [link](#)

FastAPI, Docker, Kubernetes, Terraform, Traefik, Prometheus/Grafana, PostgreSQL

- Built a Heroku-style PaaS: git push to build, push, and deploy on Kubernetes with auto-provisioned HTTPS.
- Designed an idempotent worker with live WebSocket log streaming and guarded rollback to prior deployments.
- Provisioned cluster, VPC, and DNS as code with Terraform; added CPU-based autoscaling via HPA.