

Yash Maheshwari

Pre-Final Year Computer Science Student — Data Science Specialization, Manipal University Jaipur

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PROFESSIONAL SUMMARY

Pre-final year Computer Science and Engineering student specializing in Data Science, focused on building **scalable, production-ready backend systems**. Strong experience in **Python, FastAPI, SQL, RESTful APIs, and asynchronous programming**, with hands-on exposure to system design, distributed workflows, and cloud-deployable services. Seeking a **Software Engineering Intern / Backend Intern** role.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL

Core CS: Data Structures and Algorithms, Object-Oriented Programming, Time & Space Complexity

Backend & Web: FastAPI, RESTful API Design, Async Programming, Microservices

Databases: PostgreSQL, Supabase, SQL Query Optimization

Cloud & DevOps: Docker, AWS (EC2, basic deployment), API Deployment

Tools & Practices: Git, GitHub, Debugging, Logging, SDLC, VS Code

Data & ML: Pandas, NumPy, Scikit-learn, Feature Engineering, Model Evaluation

PROJECTS

Wealthify: AI Finance Manager

[GitHub](#)

Technologies: FastAPI, PostgreSQL, Supabase, Docker, Scikit-learn

- Built backend services and RESTful APIs for AI-driven budget and expense forecasting achieving **90% prediction accuracy**.
- Optimized database queries and backend workflows, improving data synchronization performance by **35%**.
- Designed APIs with validation-first patterns and structured logging for production reliability.

ClaimWise: Smart Insurance Assistant

[GitHub](#)

Technologies: FastAPI, LangChain, RAG, Vector Indexing

- Designed a modular backend system for an LLM-powered insurance assistant using retrieval-augmented generation.
- Reduced response latency by **60%** through efficient indexing and API-level optimizations.

TradeguardAI: Global Trade Intelligence Platform

[GitHub](#)

Technologies: FastAPI, Python, LangChain, Next.js

- Developed backend services for real-time news ingestion and processing using Python.
- Integrated APIs with analytics dashboards to enable data-driven insights.

Jasper: Autonomous Financial Research System

[GitHub](#)

Technologies: Python, FastAPI, LangGraph, Systems Engineering

- Built a **production-grade, CLI-first software system** with deterministic pipelines for planning, execution, validation, and synthesis.
- Engineered a **state-driven backend architecture** using LangGraph to orchestrate asynchronous workflows with strict failure handling.
- Applied clean architecture, validation-first design, and structured logging to ensure maintainability and debuggability.

EXPERIENCE

AI/ML Intern — DevX

Dec 2025 – Jan 2026 (Internship)

- Assisted in developing a machine learning forecasting engine, improving prediction accuracy by **70%**.
- Deployed inference workflows using FastAPI, supporting scalable backend services.

Backend Engineer — Orydle

Aug 2025 – Present (Full-time / Internship)

- Engineered backend systems enabling async workflow execution, checkpointing, and WebSocket streaming.
- Improved backend reliability and throughput by **30%** using async design patterns and modular architecture.

EDUCATION

B.Tech in Computer Science and Engineering (Data Science Specialization)
Manipal University Jaipur

2023–2027
GPA: 8 / 10