

Arman Phaugat

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Education

Bachelor of Technology in Computer Science and Engineering
Manipal University Jaipur
Jaipur, Rajasthan
CGPA: **9.05** (till 5th semester)

August 2023 – July 2027

Experience

Web Development Intern

Indavis Lifesciences, Haridwar

June 2025 – July 2025

- Maintained and updated the company website, ensuring smooth performance and content accuracy.
- Collaborated with teams to align website updates with **brand and business objectives**.

Projects

Real Time Stock Trading Backend

Node.js, Express, MySQL, Redis, BullMQ, JWT, Docker, Argon2, Postman

- Built high-performance leaderboard system using Redis Sorted Sets with pipeline optimization, **achieving <50ms query time**.
- Engineered automated price simulation engine using **BullMQ + Redis** with **30-minute repeatable jobs**, updating stock prices with ±25%.
- Secured APIs with JWT authentication (access + refresh tokens), custom Token Bucket **rate limiter at 5 req/sec per user**, and containerized Redis using **Docker** for **BullMQ** job processing and leaderboard cache management.
- Implemented **ACID-compliant buy/sell workflows** using **MySQL transactions and row-level locking** to ensure wallet balance and portfolio consistency under concurrent requests.

Video Streaming & User Management Backend

Node.js, MongoDB, Express, Cloudinary, JWT, Bcrypt, Postman, ffmpeg

- Designed and implemented a **full-featured backend** for a YouTube-like platform, supporting user authentication, video uploads, and channel management.
- Implemented **JWT-based authentication** with access and refresh tokens, ensuring secure login, logout, and token refresh workflows.
- Executed a **video upload pipeline** with **HLS transcoding** (fluent-ffmpeg), **adaptive bitrate streaming** (360p/720p), **Cloudinary** segment hosting.
- Optimized **MongoDB queries with indexes and aggregations** for watch history, subscriptions, and tweet analytics, improving **API response times from ~200ms to ~120ms** and enabling **real-time analytics** for users.

RAG Discord Bot

Python, FastAPI, LangChain, FAISS, Discord.py, Groq

- Built a **RAG-powered Discord bot** that ingests PDFs and web pages, embeds them using HuggingFace into a FAISS vector store, and answers questions via retrieval-augmented generation.
- Designed a modular **ingestion pipeline** using LangChain with web scraping, PDF parsing, recursive text chunking, and persistent local FAISS embedding storage.
- Implemented a **LangChain LCEL query chain** that retrieves semantically similar chunks and feeds them as context to a Groq-hosted Llama 3.3 LLM for grounded answers.
- Architected a production-ready **FastAPI backend** with multi-server isolation, permission-gated uploads, per-guild vector stores, and optimized performance using caching and rate limiting.

Skills

Programming: Python, JavaScript, C, C++, Java, HTML, CSS

Web Technologies: Node.js, Express.js, FastAPI, React, Tailwind CSS, Streamlit, REST APIs

Database: MySQL, MongoDB, Redis, FAISS, SQLite3

Libraries/Frameworks: LangChain, HuggingFace, Discord.py, Pandas, NumPy, JWT, Bcrypt, Argon2, Matplotlib, Express.js, BullMQ

Tools & Platforms: Docker, Git, GitHub, VS Code, Jupyter Notebook, Postman API, Cloudinary, Groq

Core Concepts: Data Structures, Algorithms, System Design, OOP, Operating Systems, Machine Learning, ACID Transactions, Caching, Rate Limiting, Authentication & Authorization, Vector Databases, RAG

Achievements

- Received Dean's Excellence Award across multiple semesters for maintaining a 9.0+ CGPA.
- Solved **900+ DSA problems** across various platforms.
- LeetCode Problem Solving: Ranked in the top **0.3%** globally.
- Qualified for Round 2 in **MUJHackX Hackathon** among 1300+ participants at Manipal University Jaipur.