

# Manas Dubey

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## SUMMARY

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Computer Science student with strong foundation in Data Structures and Algorithms, solving 300+ LeetCode problems with 1600+ contest rating. Experienced in Java backend development, REST API design, and building scalable systems including distributed API rate limiters and LLM-based applications. Interested in Software Development / Backend / Java roles.

## EDUCATION

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### Galgotias University, Noida

2023 – 2027

B.Tech in Computer Science and Engineering

## TECHNICAL SKILLS

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- **Languages:** Java, Python, SQL, C
- **Core:** Data Structures, Algorithms, OOP, DBMS, OS
- **Backend:** REST APIs, API Design, Rate Limiting, Spring Boot
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- **Tools:** Git, GitHub, Postman, IntelliJ, VS Code

## EXPERIENCE

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### Python Developer Intern

Oct 2024 – Nov 2024

AICTE Edunet Foundation (Remote)

- Developed a web scraping tool using BeautifulSoup to extract structured data from dynamic websites.
- Optimized parsing logic improving data extraction performance by 20%.
- Exported processed data into JSON and CSV formats for analysis.

### AI-ML Virtual Intern

Jul 2024 – Sep 2024

Google for Developers & AICTE EduSkills

- Completed training on machine learning fundamentals and real-world AI applications.

## PROJECTS

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### API Rate Limiter | Java, Spring Boot, Redis

- Built a distributed API rate limiting system supporting Fixed Window, Sliding Window, and Token Bucket algorithms.
- Implemented thread-safe counters using ConcurrentHashMap, Atomic operations, and CAS for concurrency control.
- Integrated Redis for shared rate-limit state across multiple server instances.
- Developed middleware interceptor to protect REST APIs using API-key and IP-based limits.
- Created monitoring dashboard to track request counts and simulate burst traffic.

### MedGen | Python, LangChain, Pinecone

- Built a Retrieval-Augmented Generation chatbot using LangChain and vector database.
- Implemented semantic search using Pinecone for document retrieval.
- Designed query pipeline for document retrieval and LLM response generation.

## ACHIEVEMENTS

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- Solved 300+ LeetCode problems with 1600+ contest rating.
- Selected for internal round of Smart India Hackathon 2024.
- Participated in university-level hackathon and collaborated in team-based problem solving and prototype development.
- Open Source Contributor at GirlScript Summer of Code Extended 2024, contributed code fixes and documentation improvements.