

Aryan Kumar Raj

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Professional Summary

Computer Science undergraduate with strong analytical and problem-solving skills and solid proficiency in programming and data structures. Experienced in academic and project-based environments involving requirement analysis, solution design, and process improvement. Demonstrates effective written, verbal, and presentation communication, with the ability to collaborate with stakeholders. Seeking an apprenticeship-based role with structured training, performance evaluation, and professional growth.

Projects

- **Real Estate Price Analytics Platform** - Built a data-driven system to analyse location-wise property prices, estimate future trends, and adjust projections using recent local infrastructure news. Integrated Gemini API to evaluate location-specific news signals and apply positive or negative impact factors to price trends.
Tech: Python, Pandas, NumPy, FastAPI, Gemini API.
- **Document Intelligence Platform** - Built a scalable web-based system to process 8+ document formats and deliver context-aware query responses via RESTful APIs. Integrated Google GenAI and optimized request handling and prompt workflows, reducing average response latency by ~30%.
Tech: Python, FastAPI, Google GenAI, REST APIs, Cloud.
- **Order Management & Inventory System** - Designed and presented a backend-driven order management solution as part of a team, addressing challenges related to inventory consistency and overselling. Collaborated with team members to analyze business requirements, propose transactional workflows, and define state management strategies. Presented the system design and implementation approach, highlighting atomic order processing, inventory locking mechanisms, and role-based access control to ensure data integrity and reliable order fulfilment.
Tech: Node.js, Express.js, PostgreSQL, JWT, REST APIs.

Skills

- **Programming Languages:** C++, C, Python, JavaScript.
- **Backend Development:** FastAPI, Express.js, Backend System Design.
- **API Development:** REST APIs, API Design, JWT Authentication, Role-Based Access Control (RBAC).
- **Databases:** PostgreSQL, SQLite, SQL.
- **Data & Analytics:** Pandas, NumPy, Data Visualization
- **Tools:** Microsoft Excel, Microsoft PowerPoint, Microsoft Word

Achievements

- Secured **3rd place among 100+ teams** at HackTech 2025, organized by Thapar Institute of Engineering and Technology, for building a production-ready technical solution.
- Maintained **long-term consistency** by participating in **100+ competitive programming contests**, achieving **4★ on GeeksforGeeks** and **1500+ rating on LeetCode**.
- Awarded **2nd prize** in a college-level Web Development competition for designing and implementing a functional full-stack web application.

Education

- B.Tech in Computer Science & Engineering, Rajasthan Technical University, Kota

2022 - 2026