

Aditya Kumar

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Summary

Highly motivated Computer Science student (B.E. CSE, graduating 2026) with an availability for a full-time, six-month internship (Jan-Jun 2026). Possesses a solid grounding in Computer Science fundamentals, data structures, and algorithms to contribute to scalable and efficient solutions. Eager to leverage strong coding skills and foundational knowledge of AI/ML concepts to design and develop applications.

Education

Chandigarh University

Aug 2022 – July 2026

Bachelor of Engineering in Computer Science and Engineering

- GPA: 7.76/10.0
- **Coursework:** Data Structures and Algorithms, Operating Systems, Computer Networks, Advanced Database Management Systems, Computer Organization and Architecture, Cloud Computing, Edge and IoT Systems, Machine Learning, Software Engineering, Cybersecurity Fundamentals

Projects

Multi-Container Application Deployment

github.com/kodi73/MultiDocker ↗

- Developed a Dockerized multi-container web application with PostgreSQL database integration to calculate Fibonacci numbers, implementing CI/CD pipelines for automated deployment and testing.
- Applied scalable architecture, container orchestration, and networking concepts using Docker, Nginx, Redis, and Git/GitHub Actions and deployed to Elastic Beanstalk (AWS).

Local Retrieval Augmented Generation System

github.com/kodi73/Local-RAG-System ↗

- Built a local Retrieval Augmented Generation (RAG) system using large language models to answer questions from local documents, integrating vector databases and embeddings for semantic search.
- Leveraged LangChain, ChromaDB, HuggingFace, and API integrations to design a scalable, efficient, and modular question-answering tool, demonstrating applied knowledge in AI/ML and cloud concepts.

WordNet Semantic Distance Analyzer

github.com/kodi73/WordNet ↗

- Developed a Java client using graphs, BFS, and caching to compute semantic distances and shortest ancestral paths (SAP) between nouns, applying Data Structures, Algorithms and OOP principles.
- Implemented the Outcast detection module and validated DAG-based graph structures for scalable, efficient, and accurate algorithm execution.

Hard Skills

Programming Languages: Java (Proficient), C++ (Familiar), Python (Intermediate), C (Familiar), SQL (Proficient), Bash/Shell (Intermediate), JavaScript (Intermediate), HTML (Intermediate), CSS (Intermediate)

Technologies: Microsoft SQL Server, Docker, Git, CI/CD pipelining, Unix/Linux, Microsoft Azure, Kubernetes, Tensorflow

Soft Skills

Analytical Thinking, Problem Solving, Teamwork, Communication, Fast Learner, Adaptability, Agile Collaboration, Ownership