

Kanak Kumari

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Summary

Second-year B.Tech Computer Science student with a strong foundation in data structures, algorithms, and software engineering fundamentals. Built academic and personal projects in full-stack development, backend systems, and applied AI concepts. Actively seeking internship opportunities to learn, contribute, and gain real-world software engineering experience.

Education

Amity University

Bachelor of Technology in Computer Science and Engineering (B.Tech CSE)

Aug 2024 – Aug 2028

Technical Skills

Core Computer Science: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS

Programming Languages: C++, Python, Java, JavaScript, TypeScript, SQL

Backend Development: Node.js, Express.js, REST APIs

Databases: MySQL, MongoDB, Oracle

Cloud & Tools: AWS, Azure, Git, Postman

Projects

- **Fintracx: RBAC Finance Dashboard** | GitHub May 2026
 - Built a role-based finance dashboard with secure REST APIs, JWT authentication, and middleware-driven access control.
 - Implemented CRUD operations with validation, filtering, search, pagination, and protected route handling.
 - Designed analytics features for tracking income, expenses, net balance, trends, and category-based financial insights.

Tech: MongoDB, Express.js, React, Next.js, Node.js, JWT
- **MediBot: Medical Chatbot** | GitHub Feb 2026
 - Built a medical chatbot using a RAG pipeline with FAISS vector database for context-aware responses.
 - Integrated HuggingFace LLMs and LangChain to retrieve and generate accurate answers from verified medical literature.
 - Designed scalable backend workflows with semantic search, API handling, and real-time interaction for reliable medical Q&A.

Tech: Python, LangChain, FAISS, Streamlit
- **RailTrack: Railway Management System** | GitHub Nov 2025
 - Developed a C++-based railway management system for ticket reservation, cancellation, enquiry, and passenger record management.
 - Implemented separate admin and user modules with authentication, train database management, and ticket handling functionalities.
 - Utilized file handling, date management, and concession-based fare calculation to support efficient railway operations.

Tech: C++, OOP, File Handling

Achievements & Certifications

- **NPTEL Certification – The Joy of Computing Using Python:** Elite + Silver Nov 2025
- **Winner (Rank 1)** – Unstop Weekly Coding Challenge 26 Apr 2025
- **Top Ranker** – Data Structures & Algorithms Contest, Amity University Sept 2025
- **Rank 1** – Essay Writing Competition, Amity University Nov 2025
- **HackerRank Certification** – Python (Basic) Apr 2025

Soft Skills & Languages

- **Soft Skills:** Problem Solving, Analytical Thinking, Team Collaboration, Communication, Adaptability, Time Management
- **Languages:** English (Fluent), Hindi (Native), French (Basic)