

HEMANTH KUTTUBOYINA

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OBJECTIVE

Highly motivated Computer Science undergraduate with strong foundations in Core Java, Object-Oriented Design, and Data Structures, seeking an entry-level software engineering role at IBM. Passionate about building scalable data processing platforms, developing high-quality APIs, and contributing to real-world product development using modern engineering practices such as microservices, CI/CD, and unit testing. Eager to learn, take ownership of challenges, and deliver impactful solutions as a growth-minded IBMer.

TECHNICAL SKILLS

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

Core Concepts: Object-Oriented Design (OOAD), Design Patterns, Data Structures & Algorithms, Complexity Analysis

Backend & APIs: Node.js, REST APIs, Microservices Basics, JWT/OAuth 2.0

Databases: SQL, MongoDB (NoSQL)

Distributed Systems: Fault Tolerance, Scalability Concepts, Concurrent Programming Basics

Testing & DevOps: Unit Testing (JUnit concepts), CI/CD Basics, Git, Linux

Frontend: React.js, HTML, CSS, Tailwind CSS

Additional: System Design Fundamentals, Docker Basics, Self-learning New Technologies

PROFESSIONAL EXPERIENCE

GenZ EducateWing

Machine Learning Intern

May – July 2024

- Developed Python-based ML pipelines including data preprocessing, model training, and evaluation
- Applied structured problem-solving to improve model accuracy and performance
- Followed clean coding practices, documentation standards, and mentor-driven code reviews

Unified Mentor

Full Stack Development Intern

May – July 2025

- Designed and implemented end-to-end features for a full-stack web application
- Built RESTful services using **Node.js** and integrated with **MongoDB**
- Developed responsive UI using **React** and followed modular, reusable component design
- Practiced version control, debugging, and collaborative development using **Git**

PROJECTS

Distributed URL Shortener (System Design Project)

[GitHub](#)

- Designed a scalable URL shortening service using REST APIs and modular backend architecture
- Implemented unique ID generation, request routing, and redirection logic
- Applied authentication using JWT and OAuth 2.0
- Introduced fault-tolerant handling and concurrency-safe operations

ShareHub – File Sharing Platform

[GitHub](#)

- Built a distributed file-sharing platform using **React** and **Appwrite**
- Enabled multi-user concurrent uploads and downloads with role-based access
- Focused on platform usability, performance, and clean API integration

Movie Recommendation System

[GitHub](#)

- Developed a content-based recommendation engine using cosine similarity
- Built backend logic in **Python** and deployed via **Flask**
- Demonstrated strong understanding of algorithms, data processing, and evaluation

EDUCATION

B.Tech in Computer Science & Engineering (AI/ML) Andhra Loyola Institute of Engineering & Technology	2023 – 2026 CGPA: 7.7/10
Diploma in Electronics & Communication Engineering Bapatla Engineering College	2020 – 2023 Score: 76%

CERTIFICATIONS & ACHIEVEMENTS

- Python Certification (2024)
- HackerRank – Problem Solving Certification
- Ranked Top **200** in LeetCode Biweekly Contest (2024)
- Winner – Inter-College Hackathon (1st Place)
- Runner-up – State-Level Hackathon (2nd Place)