

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 (xUnit 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
	<ul style="list-style-type: none">Developed Python-based ML pipelines including data preprocessing, model training, and evaluationApplied structured problem-solving to improve model accuracy and performanceFollowed clean coding practices, documentation standards, and mentor-driven code reviews	
Unified Mentor	Full Stack Development Intern	May – July 2025
	<ul style="list-style-type: none">Designed and implemented end-to-end features for a full-stack web applicationBuilt RESTful services using Node.js and integrated with MongoDBDeveloped responsive UI using React and followed modular, reusable component designPracticed version control, debugging, and collaborative development using Git	

PROJECTS

Distributed URL Shortener (System Design Project)	GitHub
<ul style="list-style-type: none">Designed a scalable URL shortening service using REST APIs and modular backend architectureImplemented unique ID generation, request routing, and redirection logicApplied authentication using JWT and OAuth 2.0Introduced fault-tolerant handling and concurrency-safe operations	
ShareHub – File Sharing Platform	GitHub
<ul style="list-style-type: none">Built a distributed file-sharing platform using React and AppwriteEnabled multi-user concurrent uploads and downloads with role-based accessFocused on platform usability, performance, and clean API integration	
Movie Recommendation System	GitHub
<ul style="list-style-type: none">Developed a content-based recommendation engine using cosine similarityBuilt backend logic in Python and deployed via FlaskDemonstrated 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)