

Koppolu Mithilesh Reddy

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Education

KL Deemed To Be University, Hyderabad

Bachelor of Technology in Computer Science and Engineering

2023 – 2027

CGPA: 9.46/10

Projects

Skill Hive – Adaptive Learning Platform

Full-stack application delivering personalized learning paths using rule-based recommendation logic.

- Engineered a recommendation workflow adapting content dynamically based on user interaction patterns.
- Designed REST APIs handling concurrent requests; reduced average response time by 30% through query optimization.
- Implemented caching strategies to minimize database load and improve system throughput under repeated access.
- Built structured data pipelines ensuring consistent and reliable recommendation outputs.
- Developed scalable backend architecture with focus on performance, reliability, and data consistency.

• Technologies: Python, Flask, MySQL, SQLite, Bootstrap

CareerConnect – Career Recommendation System

Full-stack system mapping user inputs to structured career paths.

- Developed a scoring engine to convert survey responses into ranked career recommendations.
- Normalized diverse user inputs to ensure consistency and reduce bias in recommendation results.
- Designed backend workflows improving reliability and reducing ambiguity in output generation.
- Built an interactive frontend dashboard presenting career paths, required skills, and role-based insights.
- Refined scoring logic iteratively to improve accuracy and consistency of recommendations.
- Technologies: React.js, Node.js, Express, MongoDB

Local Services Connector – Service Booking Platform

Full-stack platform enabling service discovery and booking.

- Developed dynamic search and filtering system based on category, location, and ratings.
- Designed RESTful APIs to manage booking workflows ensuring consistent state across transactions.
- Implemented authentication and role-based access control for users and service providers.
- Structured backend services to efficiently handle concurrent booking requests.
- Maintained modular architecture with clear separation of services and APIs.
- Technologies: React.js, Node.js, Express, MongoDB, Tailwind CSS

Technical Skills

Languages: Java, Python

Full-Stack Development: React.js, Node.js, Express, REST APIs

Databases: MongoDB, MySQL

Tools: Git, GitHub, VS Code

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, System Design Basics, Database Optimization, API Design, Operating Systems Basics

Areas of Interest: Backend Engineering, Distributed Systems, Cloud Computing, FinTech Systems

Certifications

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect – Associate