Ashok Bongu

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Education

BTech in Computer Science, SRKR Engineering College, Bhimavaram   **CGPA: 9.2** (July 2025)

Projects

Healverse – AI-Powered Health & Wellness Ecosystem *(React Native, Spring Boot, Firebase, AI APIs)*

- Developed an end-to-end mobile application offering intelligent health tracking, diet planning, medication alerts, and guided meditation.
- Built a robust Spring Boot backend with secure REST APIs, Firebase integration, and cloud database connectivity.
- Implemented AI-based personalized health insights with gamified engagement modules to improve user retention.

DeepNox – Deepfake Detection System *(Python, TensorFlow, OpenCV, Flask, React, Chrome Extension)*

- Engineered an AI-driven platform to detect manipulated media using deep learning models trained on facial datasets.
- Created a real-time Chrome extension for instant fake content detection within web browsers.
- Deployed Flask-based inference APIs for real-time prediction and accuracy scoring between frontend and backend.

LoopLink – Real-Time Chat Application *(React.js, Node.js, Express, MongoDB, Socket.IO, OAuth)*

- Built a scalable messaging platform supporting private, group, and broadcast chats with live typing indicators.
- Integrated OAuth and JWT authentication to ensure data privacy and secure session management.
- Optimized WebSocket event handling for low-latency communication and efficient message persistence.

Student Registration Dashboard *(HTML, CSS, JavaScript, Node.js, Express.js, MongoDB)*

- Designed a full-featured dashboard for managing student enrollment, course allocation, and academic analytics.
- Developed a modular Node.js backend with structured data models and reusable API endpoints.
- Leveraged MongoDB for efficient, centralized, and secure academic data storage.

Python LinkedList Module (Published on PyPI) *(Python3, OOP, PyPI)*

- Designed a custom LinkedList module supporting insert, delete, search, and traversal with exception handling.
- Applied clean OOP architecture for modularity, scalability, and maintainability.
- Published on PyPI as `ashok-ll` with detailed documentation and version control.

Skills

- **Programming Languages:** JavaScript, TypeScript, Python, Java, C, C++, HTML5, CSS3
- **Frameworks & Libraries:** React.js, Next.js, React Native, Node.js, Express.js
- **Databases:** MongoDB, SQL , PostgreSQL
- **Tools & Platforms:** Git, GitBash, VS Code, Postman, Firebase , Vercel

Certificates

- **Hackathon Winner** – Healverse (Vedic Vision 2k25)
- **Excellence Award** – Deepfake Detection System (Prajwalan 2k25)

Achievements

- Solved **430+ Data Structure & Algorithm problems** on LeetCode
- Profile: leetcode.com/u/b_ashok

Extra-Curricular Activities

- **Executive Member, SRKR Coding Club** – Organized coding contests and guided peers in algorithmic problem-solving.