DWARKANATH KRISHNA

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OBJECTIVE

Computer Science and Engineering student skilled in Data Structures & Algorithms, software development, and basic AI, with hands-on experience in front-end and basic back-end web development. Passionate about building efficient, user-friendly applications and seeking opportunities to contribute problem-solving and software engineering skills to innovative teams.

EDUCATION

Vellore Institute of Technology, Vellore, Tamil Nadu, India   **September 2022 – July 2026**
Bachelor of Technology, Computer Science and Engineering
  • **Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Software Engineering

Rose Public School, Darbhanga, Bihar, India   **June 2021**
Higher Secondary Education, PCM

SKILLS

- **Data Structures and Algorithms**
- **Programming Languages and Database:** Java, C, C++, MySQL (SQL)
- **Front-End Development:** HTML, CSS, JavaScript
- **Development Tools:** Git, GitHub
- **Operating Systems:** Linux, Windows
- **AI Fundamentals:** Generative AI, OCI AI Foundations

ACADEMIC PROJECTS

SoundWave – Web Music Player | HTML, CSS, JavaScript

- Built a responsive web-based music player using HTML, CSS and JavaScript.
- Implemented core playback features including play/pause controls and track navigation.
- Designed a clean and intuitive UI to ensure a smooth and engaging user experience.

Digital Watermarking & Steganography System | Python
- Developed a data hiding system using LSB watermarking for secure text and audio embedding.
- Implemented Spread Spectrum Steganography to improve resistance against statistical attacks.
- Ensured imperceptibility and data integrity while maintaining reliable information extraction.

Smart Library Management System | Java
- Designed a layered Core Java application using OOPS principles
- Implemented book and user management with HashMap for efficient search
- Added thread-safe book issuing and custom exception handling

Binary Tree Analyzer | Java
- Implemented binary tree construction and traversal using recursion
- Computed height, diameter, top view, and detected duplicate subtrees
- Optimized logic using BFS, DFS, and HashMap-based techniques

CERTIFICATIONS

- **Oracle|** *OCI AI Foundations Associate (2025)* *(Certificate Link)*
- **Oracle|** *OCI Generative AI Professional (2025)* *(Certificate Link)*
- **Oracle**| *Java SE 17 Developer (In Progress)*