

Thota Mohana Naga Venkata Kalicharan

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SKILLS

- **Languages:** Python, C, C++, Java.
- **Frameworks:** HTML and CSS, NodeJS, React.
- **Tools/Platforms:** MySQL, Git, GitHub.
- **Gen AI:** Prompt Engineering, RAG.
- **Soft Skills:** Critical Thinking, Adaptability, Team Management, Conflict Resolution.

PROJECTS

Synthesia - Music Streaming Platform | GitHub

February 2026

- Developed a full-stack music streaming platform using the MERN stack, providing users with a responsive and interactive listening experience.
- Built and integrated RESTful APIs with Node.js, Express, and MongoDB to manage music content and user data efficiently.
- Implemented secure authentication and media upload functionality, enabling controlled access and audio file handling.
- Designed a modern frontend using React (Vite) and Tailwind CSS, focusing on modular components and smooth UI interactions.

Tech: MERN Stack (MongoDB, Express.js, React, Node.js), RESTful APIs, Tailwind CSS

Real-Time Road Surveillance and Emergency Alert System: | GitHub

March 2024

- Conceptualized a road surveillance system aimed at improving monitoring and incident reporting on remote highways.
- Utilized mapping APIs with sensor inputs to support real-time location tracking and synchronized data flow.
- Applied computer vision techniques using Python and OpenCV to identify road conditions in diverse environments.
- Implemented GPS-based intelligent alerting with GSM communication to enable timely notifications and coordinated response handling.

Tech: Python, Open CV, GPS and GSM modules, Cloud database.

Custom Browser: | GitHub

January 2024

- Designed and built a lightweight custom browser for personal and educational learning environments.
- Developed a responsive interface using HTML, CSS, and JavaScript with smooth navigation and consistent layout behavior.
- Implemented key browser features including address-based navigation, browsing history, and multi-tab support.
- Utilized DOM APIs and Local Storage to manage dynamic content, maintain application state, and preserve session data efficiently.

Tech: HTML5, CSS3, JavaScript (ES6+), DOM APIs, Local Storage, Git.

INTERNSHIP

Web stack Academy – MERN Stack Internship: | Link

February 2026

- Completed a structured, mentor-led internship program focused on the MERN stack (MongoDB, Express.js, React, Node.js).
- Received guided training sessions covering full-stack web development concepts and implementation.
- Prepared and delivered oral presentations on assigned MERN stack Project as part of continuous evaluation.
- Demonstrated understanding of frontend and backend integration through concept explanations and practical examples.
- Successfully met evaluation criteria and received an internship completion certificate based on performance.

CERTIFICATIONS

- Advanced Prompt Engineering by UpGrad | Link September 2025
- Mastering Data Structures and Algorithms by Board Infinity | Link July 2025
- Cloud Computing by NPTEL, SWAYAM | Link April 2025
- Responsive Web Design by Free Code camp | Link October 2023

EXTRACURRICULAR ACTIVITIES

- Completed an Advanced Graph programming camp by Algo University | Link November 2025
- Participated in Inter-University Hackathon by Code-A-Haunt | Link March 2023

EDUCATION

- **Lovely Professional University** Phagwara, India
Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.84** August 2023 - Present
- **Rajiv Gandhi University of Knowledge and Technologies** Kadapa, Andhra Pradesh
Intermediate (PCM); **Percentage: 88** May 2021 - March 2023
- **Little Buds High School** Eluru, Andhra Pradesh
Matriculation; **Percentage: 98** June 2020 - March 2021