CHARAN KUMAR BOMMAKANTI

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Carrer Objective

Aspiring Frontend Developer and Embedded Systems Engineer with expertise in HTML, CSS, JavaScript, Bootstrap and Arduino. Passionate about building scalable solutions and applying my skills in a dynamic environment.

Education

B. Tech in Electronics and Communication Engineering	NNRG College	CGPA: 7.4	2025
Diploma in Electronics and Communication Engineering	SSIT College	CGPA: 6.9	2022
Secondary Education (10th Grade)	ZPHS	GPA: 8.2	2019

Skills

- Frontend Development: HTML, CSS, JavaScript, Bootstrap
- Backend & Databases: SQL
- Embedded Systems & IoT: Arduino, Microcontrollers, Sensor Integration
- Programming Languages: C, JavaScript, Basic Python
- Version Control & Tools: Git, GitHub, PLX-DAQ, VS

Projects

- **Matrix LED Headlight System**

Technologies: Arduino, LDR Sensors, Ultrasonic Sensors, Embedded C
Developed an adaptive LED headlight system that dynamically adjusts brightness using LDR and ultrasonic sensors to detect oncoming vehicles.

- **Bluetooth-Controlled Robot**

Technologies: Arduino, Bluetooth Module (HC-05), Motor Drivers, Embedded C
Developed a Bluetooth-controlled robot enabling seamless smartphone-based movement and operation.

- **Tata Motors Website** 🔗 **Live Website: Tata Motors Website** 🔗 **GitHub Repo: Tata Motors Website Code**

Technologies: HTML, CSS, Bootstrap, JavaScript
Built a responsive website featuring categorized car listings, an interactive auto-carousel, and a dedicated EV section.

- **Real Estate Website** 🔗 **Live Website: Real Estate Website** 🔗 **GitHub Repo: Real Estate Website**

Technologies: HTML, CSS, JavaScript, Bootstrap
Developed a user-friendly real estate website with property listings, interactive search filters, and an intuitive UI/UX, enabling users to explore properties efficiently based on location, price, and features.

Certifications & Achievements

- Web Development Certification – Udemy (Completed 30+ hours of training in HTML, CSS, JavaScript, React.js, and modern front-end frameworks).
- 2nd Position in Technical Events – Tech Samparthi 2024 (NNRG College) Recognized for outstanding performance in technical competitions.
- National Level Generative AI Hackathon – IIIC & IIC (NNRG College) Successfully participated and developed innovative AI-based solutions.

Positions & Responsibilities

- Frontend Developer Intern – Unified Mentor Developed and optimized web pages, improved UI/UX, and collaborated on website functionality.
- Led the development of a Fire-Fighting Robot, managing hardware-software integration, project timelines, and real-time sensor control systems.
- Joint Secretary – IETE Student Forum   2023-2024
  Organized tech events, workshops, and student engagement programs.

Interests & Hobbies

Web development & coding, IoT & embedded systems, exploring new technologies, hackathons & technical competitions.