Menta Suprathik

Web Developer & IoT , Embedded Systems | suprathik973@gmail.com | +91 9849141979

Portfolio: About Me | LinkedIn Profile | Leetcode | GitHub

Summary

Third-year B.Tech student in Electronics and Communication Engineering, passionate about integrating software and hardware. Skilled in Python, Java, JavaScript, and SQL, with interests in IoT, embedded systems, and emerging technologies. Demonstrates strong problem-solving, project development, and leadership abilities through academic projects and technical initiatives.

Technical Skills

- **Programming:** Python, Java, SQL, C, JavaScript
- **Web Development:** HTML, CSS, JavaScript, React **BackEnd:** Node.js
- **Version Control:** Git, GitHub
- **Databases:** MySQL, OracleSQL
- **HardWare Programming:** Arduino,Rasberrypi **Cloud Computing:** Oracle Fusion (Basic Knowledge)
- **Reporting Tools:** OTBI , BI-Publisher (form oracle fusion)

Education

Bachelor of Technology in Electronics & Communication	2023 – 2027

Vellore Institute of Technology – Amaravati
- CGPA: 9.22

Higher Secondary Education	2021 – 2023

Sri Deepthi Junior College
- Percentage: 98.2%

Secondary Education	– 2021

Gopi Krishna High School
- Percentage: 97.33%

Experience

Core Team Member, CSI Club and Chapter (VCode Team,Event Manage-ment team), VIT-AP University	Since Sept 2023

- Spearheaded major initiatives such as the 100 Days of Coding in Java, coding hackathons and HackerRank/CodeChef contests and strengthened the community's coding culture through leadership, mentorship, and consistent technical engagement.

Certifications

- **Embedded System Design Internship By Maven Silicon:** – Earned certification from Maven Silicon, validating knowledge Digital Electronics & Embedded Systems .

- **C langauge Certifiaction From Applogic :** – Earned C certification from Applogic Coaching Center, highlighting skills in programming concepts.

- **Python Certifiaction From Applogic :** –Successfully completed Python certification at Applogic Coaching Center, strengthening programming fundamentals.

Projects

EcoShield – Real-Time Environmental Monitoring System   2024

- Designed and developed a real-time monitoring system using Arduino sensors to collect and analyze air quality, temperature, and humidity data.
- Automated data processing with Embedded C, enabling efficient tracking of environmental changes and supporting sustainability initiatives.
- Tools Used: Embedded C, Arduino, Sensors, Data Processing & Automation

Blind Stick For Vision Impaired   2025

- Built using Arduino with ultrasonic sensors to detect obstacles, water, and low-light conditions. buzzer, vibration, and LED flashlight feedback for real-time alerts and night-time navigation.
- Designed with water detection, rechargeable battery, and ergonomic structure to improve user safety and mobility.
- Tools Used: Arduino Uno, Ultrasonic Sensor (HC-SR04), Water Sensor, Buzzer, Vibration Motor, LED, Rechargeable Battery, Breadboard & Jumper Wires

Clap Switch Based Home Automation System   2025

- Built a Smart Clap Switch System on Arduino Uno with automatic (clap-based) and manual (serial command) modes to control fan and light.
- Integrated a sound sensor for double clap detection, a 16x2 LCD for real-time status, and ensured safe startup with appliances OFF by default.
- Tools Used: Arduino Uno R3, Sound Sensor, Relay Module, 16x2 LCD, Fan, LED/Light Bulb,Arduino IDE, Embedded C/C++ (Arduino Programming), Serial Monitor

Juice Point Website   2025

- Developed a responsive and visually appealing juice point website using HTML, CSS, and JavaScript, implementing smooth navigation and interactive UI elements.
- Integrated dynamic features like menu display, order summary, and customer interaction forms for an enhanced user experience.
- Tools Used: HTML, CSS, JavaScript, VS Code

MySQL-based CRUD Application using REST API   2025

- Developed a full-stack CRUD application to Create, Read, Update, and Delete data using RESTful APIs with MySQL as the database.
- Implemented client-server communication with proper HTTP methods (GET, POST, PUT, DELETE) and JSON data handling.
- Tools used: HTML, CSS, JavaScript, Node.js/Express, MySQL, REST API, Postman, VS Code