

VENKATA MAHESH REDDY MARAM

Chennai | vm2063@srmist.edu.in | +91-9515527537 | LinkedIn | Portfolio | LeetCode | GitHub

Professional Summary

Self-driven Software Engineer and Data Enthusiast with expertise in Full-Stack Web Development, Backend Services, IoT Integration, and Data Analysis. Skilled in C, C++, Python, JavaScript, React.js, Node.js, Express.js, Flask, MySQL, MongoDB, and data visualization tools (NumPy, Pandas, Matplotlib, Seaborn, Power BI). Strong foundation in Data Structures & Algorithms, Object-Oriented Programming, SDLC, and Agile methodologies. Experienced in delivering scalable solutions, optimizing performance, and leveraging data-driven insights to solve real-world problems.

Skills

- **Programming:** C, C++, JavaScript, Python
- **Web & Backend Development:** React.js, Node.js, Express.js, Flask, HTML5, CSS3, Bootstrap, PHP
- **Databases:** MySQL (SQL), MongoDB (NoSQL)
- **Data Analysis & Visualization:** NumPy, Pandas, Matplotlib, Seaborn, Power BI, Microsoft Excel
- **Core Concepts:** Data Structures & Algorithms, Object-Oriented Programming, SDLC, Agile
- **Tools:** Git, GitHub, Postman, RESTful APIs, VS Code, Jupyter Notebook

Education

SRM Institute of Science and Technology, Chennai 2022 – 2026
B.Tech in Computer Science and Engineering - Internet of Things
CGPA: 9.52

Oxford Junior College, Andhra Pradesh 2020 – 2022
Board of Intermediate Education
Percentage: 89.5%

Dr. KKR Gowtham High School, Andhra Pradesh 2019 – 2020
Board of Secondary Education
Percentage: 100%

Experience

Technical Team Member, Logic Play Club, SRM IST Mar 2023 – Apr 2025

- Designed and developed internal software tools, improving operational efficiency by 20%.
- Built and maintained full-stack web applications using React.js, Node.js, Express.js, MySQL, and MongoDB.
- Debugged and optimized applications, reducing reported issues by 15% and improving response time.

IT & Web Developer Intern, Basket Hunt Pvt. Ltd. Aug 2023 – Oct 2023

- Conducted competitor analysis and proposed UI/UX improvements, reducing candidate drop-off by 10%.
- Collaborated with a team to develop real-time chat modules using WebSockets and Node.js, supporting 100+ concurrent users.
- Built scalable backend services with Express.js and MongoDB, improving data retrieval speed by 25%.

Projects

Hostel Booking System (Flask, MySQL) [Live Demo] Mar 2025 – May 2025

- Developed full-stack hostel booking platform for 100+ users with responsive UI and chatbot integration.
- Deployed on Render achieving 99.9% uptime; followed full SDLC for reliable delivery.

Smart Parking System (HTML, CSS, JavaScript) [Live Demo] Dec 2024 – Jan 2025

- Implemented multi-vehicle booking with dynamic slot selection; reduced manual allocation by 40%.
- Optimized UI/UX and performance; improved booking speed by 30%.

Fractional Knapsack Solver (HTML, CSS, JavaScript) [Live Demo]

Oct 2024 – Nov 2024

- Built interactive algorithm solver with visualized steps using HTML, CSS, and JavaScript, ensuring 100% accurate results.
- Implemented localStorage-based authentication for session continuity.

Smart Waste Management (IoT, Arduino Uno) [Tinkercad Demo]

Aug 2024 – Sep 2024

- Automated waste bin lid control with motion and ultrasonic sensors, reducing manual monitoring by 50%.
- Enabled real-time monitoring using LCD and LED indicators.

Certifications

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| • IBM – Introduction to Cloud Computing (Coursera) | Oct 2024 |
| • Google – Data Foundations: Data, Data Everywhere (Coursera) | Sep 2024 |

Achievements

- Advanced to Round 2 of the **Appizap National Hackathon** as part of a collaborative team.
- Developed innovative solutions during **SRM Hackathon 8.0**.
- Participated in **Flipkart Grid 6.0 (Unstop)** solving real-world software and analytical challenges.