

SOWKANDHA RAGHAV G

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EDUCATION

SSN COLLEGE OF ENGINEERING

BTECH Information Technology CGPA : 8.27/10

Chennai, India

Aug. 2023 – May 2027

Bharathi Vidhya Bhavan higher secondary school

12th grade : 577/600

Erode, India

Jun 2021 – May 2023

TECHNICAL SKILLS

Programming Languages: Python, C++

Web development: Flask, HTML, CSS

Technical skills: Database management, Software design patterns, DSA

Soft skills: Adaptability, Time Management, Teamwork, Motivation

PROJECTS

Word puzzle | Python, Graph-DS, Flask, Firebase, HTML/CSS/JavaScript

Jan 2025 – April 2025

- Developed an interactive word search game with dynamic word grids based on selected topics and difficulty levels
- Utilized Graph Data Structure to efficiently store and traverse the word grid, enabling fast and accurate word placement and search detection in all 8 possible directions
- Designed an efficient word placement algorithm ensuring words are hidden in all 8 directions
- Built a responsive UI with HTML, CSS, JavaScript, and Flask for smooth user experience
- Designed a flexible word dataset, enabling custom word lists and user-generated challenges
- Integrated a login/signup system with a user database, storing game progress and scores
- Built a learning and testing platform for kids about the new words they came across from the grid

Online Grocery | Python, Streamlit, Json, Hashtable, Queue, smtplib

Feb 2024 – April 2024

- Developed a web-based vegetable shopping platform using Streamlit for interactive UI and Python for backend logic
- Implemented a customer dashboard for browsing vegetables, adding to cart, and generating bills. Designed a vendor dashboard to manage inventory, view orders, and track delivery locations. Integrated real-time inventory management, updating stock quantities dynamically after each purchase.
- Used Hash Tables for efficient searching of vegetable details and Queues for order management
- Implemented Google Maps API integration to show delivery locations and generate optimized routes
- Utilized JSON storage for inventory and order data, ensuring a lightweight and scalable architecture.
- Built an email notification system to send order confirmations and invoices to customers.
- Ensured a responsive UI and smooth user experience with Streamlit components and folium for mapping.

LEADERSHIP/VOLUNTEERING

YRC volunteer

August 2023 – Present

- Participated in blood donation camp
- Actively participated in some of the YRC events