SWARNA KARTHIKA N

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Innovative and detail-oriented.Proficient in various programming languages and tools, with a passion for leveraging technology to improve efficiency and user experiences.

Tech Experience

Data Analysis intern at Ideatec softwares — 06/2024-08/2024
- Created a dashboard using real time data handling 5.6 million records efficiently from filter beds across the River Kaveri showcasing my skills in pandas and plotly.

Associate Head of Web and App in Computer Society of Anna University — 07/2024-present

Member of Hacks in Computer Society of Anna University — 07/2024-present

Projects

Sellalam Vaa: Accessibility mapping system for the specially abled.
- Spearheaded using OpenCV and YOLOv5 ,Leaflet.js to inform users about accessible nearby facilities.
- Facilitates visually challenged individuals in navigating with ease,operates through voice commands.

Railway Roster System
- Enhances management of employee schedules and shifts within the railway network.
- Integrates functionality to approve or reject shift swap requests and an employee notification feature.
- Employed PostgreSQL for data storage with secure access controls using functions and triggers.

Object Sorting Robotic Arm
- Developed a robotic arm capable of sorting objects based on color and size using YOLOv5, IoT, and servo motors with ESP32-CAM.

Personal planner
- Built in C++ , schedules daily tasks using topological sort.
- Plans routes with Dijkstra's algorithm, employs AVL and splay trees for efficient data management.

Neeshwa tea An e-commerce platform selling tea products using HTML, CSS, JavaScript, PHP, and MySQL.

Skills

Technical Skills:
- Programming Languages: C++, Python, JavaScript, PHP
- Frameworks and Libraries: Django, React.js ,Bootstrap CSS,openCV
- Tools and Technologies: GitHub
- Database Management: PostgreSQL, MySQL

Soft Skills: Leadership, communication, problem solving, teamwork,

Accomplishments

Best Team in Fintech in Codher hackathon by ACM — 04/05/2024-05/05.2024
- Implemented a comprehensive financial virtual guide ,” NIDHI” to meet all the financial needs.

3rd Place at Pixel Perfect A website development contest — 06/04/2024
- Coded a retro-themed, engaging website featuring captivating animations

2nd place at Wolstreet Wolverine — 01/04/2023
A trading contest at KURUKSHETRA'23

Additional Experience

- Industry Relations and Media Coordinator at CEG Tech Forum — 02/2024-present
- Interviewer at Guindy Times — 02/2024-present
- Active Member of Rotaract Club of CEG — 04/2023-present

Education

- **Btech Information Technology**
  College of Engineering ,
  Guindy ,
  Anna University.

Courses

- MASTERING DSA
- SQL BOOTCAMP
- 100 DAYS OF PYTHON