

RISHWANTH S

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PROFESSIONAL SUMMARY

Software Developer with experience in designing and developing software applications. Proficient in C, C++, and Java with a solid understanding of full-stack development, API integration, and database management. Strong problem-solving skills, a collaborative team player, and committed to delivering high-quality, scalable solutions. Passionate about staying current with emerging technologies to drive innovation and efficiency.

SKILLS

Languages Known: C | C++ | Java | JavaScript | SQL

Backend: Node.js

Database: MySQL

Frontend: HTML | CSS | Bootstrap | Blueprint JS | TailwindCSS | React.js | Redux

Other Skill: Git | Github | Vs Code

Soft Skills: Problem-solving | Agile | Communication | Collaborative

EDUCATION

BE - Electronics and Communication Engineering
Bannari Amman Institute of Technology

Sep 2020 – Apr 2024 | Erode, India

PROJECTS

STORE MANAGEMENT APPLICATION 📁

Nov 2024 – Dec 2024

- Developed an interactive e-commerce application using the **Fake Store API**, enabling product browsing, addition to cart, and real-time updates for CRUD operations.
- Built a **distributed and fault-tolerant system** for handling product catalog updates and transactions. **React.js** and **Blueprint.js** were used for dynamic UI updates and state management.
- Designed a shopping cart with quantity adjustments, subtotal calculations, and order placement, enhancing user engagement. Built a user-friendly interface using **React Router**, **Blueprint.js**, and **RESTful API** integration.
- Tools & Libraries:** React.js, Blueprint js, Fake store API, React Router, VS Code
- Technologies:** RESTful API Integration, React Hooks (useState, useEffect)
- Languages:** HTML, CSS, JavaScript

REAL-TIME WEATHER APPLICATION 📁

Oct 2024 – Nov 2024

- Real-Time Weather Application** – Developed an interactive weather application using the **OpenWeatherMap API** to fetch real-time weather data based on city search or user geolocation.
- Dynamic Updates & Responsive Design:** Designed a visually appealing and mobile-friendly interface with HTML, CSS, and Font Awesome, and implemented JavaScript for dynamic updates of weather details like temperature, humidity, wind speed, and weather conditions based on user input or geolocation.
- Error Handling & Optimization** – Integrated robust error handling for invalid city searches and geolocation issues, with **async/await** used to streamline API requests for smooth user interactions.
- Tools & Libraries:** OpenWeatherMap API, Font Awesome, VS Code
- Technologies:** Geolocation API, Async/Await for API requests
- Languages:** HTML, CSS, JavaScript

ENERGY MONITORING USING ESP8266

Dec 2023 – Feb 2024

Application development

- Developed an IoT-enabled **real-time energy monitoring system** leveraging **ESP8266 microcontrollers** and **PZEM-004T sensors**. Designed a **scalable data collection and visualization system** for monitoring power consumption remotely.
- Created an interactive **web interface** using **HTML**, **JavaScript**, and **Arduino IDE** for real-time analytics. Enabled predictive analysis for power consumption trends through distributed processing.
- Hardware:** ESP8266 microcontroller, PZEM-004T sensor, relay, Miniature circuit breaker(MCB), Current Transformer Coil (CT Coil), and LCD.
- Software:** Arduino IDE for programming, HTML & JavaScript for web interface design.

INTERNSHIP

Tessolve Semiconductor Pvt. Ltd

Jul 2022 – Sep 2022

IoT and VLSI design Trainee

- Worked on developing and testing IoT-enabled systems, integrating hardware and software for efficient device communication and functionality.
- Designed and implemented VLSI circuits for low-power and high-speed applications.
- Worked in a cross-functional team to improve embedded system efficiency and scalability.