

# RISHWANTH S

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## PROFESSIONAL SUMMARY

Software Developer with experience in designing and developing software applications. Proficient in C, C++, Java, JavaScript, and modern web frameworks, with a strong foundation in Object-Oriented Programming principles, data structures, and algorithms. Skilled in 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

**Programming Skills:** C | C++ | Java | JavaScript | SQL | Object-oriented programming

**Database:** MySQL

**Frontend:** HTML | CSS | Bootstrap | TailwindCSS | BlueprintJS | ReactJS | Redux

**Backend:** Node.js

**Other Skills:** Git | Github

**Soft Skills:** Problem-solving | Flexibility | Communication | Collaborative

## EDUCATION

**Bachelor of Engineering in 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 **BlueprintJS** 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**, **BlueprintJS**, and **RESTful API** integration.
- Tools & Libraries:** React.js, BlueprintJS, Fake Store API, React Router, VS Code
- Technologies:** RESTful API Integration, React Hooks (useState, useEffect)
- Languages:** HTML, CSS, JavaScript

### REAL-TIME WEATHER APPLICATION 🌐

Sep 2024 – Oct 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, asynchronous API handling with async/await.
- 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.

## INTERNSHIPS

### 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.
- Collaborated with a cross-functional team to enhance embedded system efficiency and scalability.