

RAGHUL BABU

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Summary

Skilled in full stack development with hands-on experience in building web applications, IoT systems, and data-driven solutions. Proficient in HTML, CSS, JavaScript, React, Node.js, Express.js, REST APIs, SQL, PostgreSQL, MongoDB, RPA and version control with Git/GitHub. Demonstrated ability to apply software development best practices through internships and freelance work.

Technical Skills

Languages & Frameworks: HTML, CSS, JavaScript, React.js, Node.js, Express.js
Databases: SQL, PostgreSQL, MongoDB
RPA Tools & Platforms: UiPath, Microsoft Power Automate, Automation Anywhere
Cloud: AWS (EC2, S3, RDS, Lambda)
Tools & Platforms: Git, GitHub, REST APIs, Firebase, Node-RED, Arduino IDE
Other Skills: RPA Workflow Automation, Screen Scraping, Email/Excel Automation, Process Mapping, OCR, Data Analysis, Python, Version Control, IoT.

Professional Experience

Freelance Full Stack Developer

- Designed, developed, and deployed scalable web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js)
- Engineered RESTful APIs for efficient client-server communication, enabling real-time data interactions and seamless user experiences.
- Integrated SQL and NoSQL databases (PostgreSQL, MongoDB) with optimized query handling.
- Personal Portfolio Website: Built a personal portfolio website using **React.js** and **CSS3**, featuring animations, contact forms, and a blog.
- Automated invoice processing and email ticketing in UiPath using OCR, Excel/PostgreSQL integration, and email-to-SQL parsing.

WALMART GLOBAL TECH

- Chennai, / India

Intern

- Participated in a real-world development simulation, focusing on clean code practices and lifecycle management.
- Collaborated on backend and frontend components using modern development tools and frameworks.
- Emphasized scalable, maintainable code aligned with industry standards.

KPMG

- Chennai / India

Intern

- Built data-driven dashboards and performed backend data analysis.
- Applied logic to customer segmentation and business insight generation.
- Focused on transforming raw data into actionable insights using visualization tools.

Academic Projects

IoT-Enabled Smart Farming System

- Developed an automated farming solution using MIT App Inventor and Arduino.
- Integrated sensors and a smart irrigation system with real-time data via Firebase and Node-RED.
- Enabled efficient water management through IoT-based motor control.

High-Speed Data Transfer via LiFi Technology

- Built a system using LEDs and photodetectors for underwater data transmission.
- Enhanced data transmission reliability with oscillators and signal processing tools.

IoT-Based Intelligent Traffic System

- Designed a system to detect intoxicated drivers using MQ3 sensors and Arduino.
- Implemented GPS and GSM modules for vehicle tracking and emergency response.
- Automated traffic signals for emergency vehicles and stolen vehicle detection.

CERTIFICATION

- Certified course in ‘**Data Visualization Using Python**’, Great Learning Academy.
- Certified course in ‘**Python Programming from Basic to Advance Level**’, Udemy
- Advanced Software Engineering Virtual Experience – Walmart Global Tech , Forage
- Data Analytics Consulting Virtual Internship – KPMG , Forage
- RPA Developer Foundation Course – UiPath Academy
- Power Automate Fundamentals - Microsoft Learn

EDUCATION

Anna University, B.E in Electronics and Communication CGPA- 8.76/10 2023

Led a team to develop a high-speed underwater data transfer system using LIFI technology.