

Renuka Wadetwar

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Education

Symbiosis Institute of Technology

B.Tech in Computer Science and Engineering — CGPA: 8.9/10

2022 – 2026

Nagpur, MH, IN

Technical Skills

Programming Languages: C/C++, Python, JavaScript (ES6+), SQL

Web Technologies: React.js, Node.js, HTML5, CSS3, RESTful APIs, MongoDB, MySQL

Cloud & DevOps: Google Cloud Platform, ServiceNow Platform, Red Hat Linux

Databases & Analytics: Oracle, MySQL, MongoDB, Neo4j, Power BI, Advanced Excel

IoT & Hardware: Arduino IDE, Sensor Integration, Tinkercad Simulation

Professional Experience

Web Development Intern

Mar 2025 – Jun 2025

VS Tech Horizon Pvt. Ltd.

Remote

- Architected and deployed 3+ full-stack web applications using React.js, Node.js, and MongoDB, serving 500+ concurrent users
- Optimized backend API performance by 35% through efficient database queries and implemented RESTful services handling 1000+ requests/hour
- Collaborated in agile development sprints with 5-member remote team, participating in 20+ code reviews and reducing bug count by 40%

Social Media & Content Intern

Jan 2024 – May 2024

Agresar Foundation (ESTREE Program)

Nagpur, MH, IN

- Created 50+ engaging social media posts and reels promoting women empowerment initiatives, achieving 25% increase in engagement rates
- Designed and published comprehensive digital magazine featuring 15+ success stories, reaching 2000+ community members
- Managed content calendar and coordinated with 10+ stakeholders to align messaging with organizational goals

Key Projects

Nex_Hub: AI-Powered Job Matching Platform | *React.js, Node.js, Neo4j, Python*

- Engineered graph-based recommendation system using Neo4j, analyzing 10,000+ candidate profiles and reducing hiring time by 40%
- Implemented machine learning algorithms for skill-based candidate ranking, achieving 85% accuracy in job-candidate matching
- Built responsive frontend with React.js and developed 15+ RESTful APIs, supporting real-time data processing for 200+ recruiters

IoT Smart Waste Management System | *Arduino, C++, IoT Sensors, Tinkercad*

- Developed automated dustbin system with ultrasonic sensors and servo motors, eliminating manual intervention and improving efficiency by 50%
- Programmed Arduino-based control system managing 5+ sensor inputs and automated lid operations with 99% reliability
- Reduced prototype development time by 75% using Tinkercad simulation, saving 20+ hours per iteration cycle

Publications & Research

Credit Risk Analysis using Machine Learning — IEEE ICCUBE-2024

- Analyzed 5000+ financial records using KNN and Logistic Regression, achieving 77.2% prediction accuracy

IoT Door Sensor for Smart Home Security — ICTACS-2024

- Designed cost-effective IoT solution reducing hardware costs by 25% while improving threat detection by 20%

AI's Role in Women Empowerment — GC4T-2025 (Accepted)

- Conducted comprehensive literature review analyzing 100+ research papers on AI applications in gender equality

Professional Certifications

- ServiceNow Certified System Administrator (CSA) & Certified Application Developer (CAD)
- NPTEL – Joy of Computing using Python (ELITE distinction with 85% score)
- Oracle Database Foundations & Red Hat System Administration I (RH124)
- Google Cloud Computing Foundations (Score: 92%)