

Ridhi Bagga

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Education

Computer Engineering Technology

Graduated: 2024

Seneca College, Toronto, ON

Certifications

Full-Stack Web Developer Certification

Udemy: Full-Stack Web Developer

- front-end (HTML, CSS, JavaScript) and back-end technologies (Node.js, PostgreSQL). - Built dynamic applications using React and integrated Web3 technologies for decentralized apps.

Experience

Web Developer

www.greatglobe.ca

GreatGlobe Immigration Solutions – Toronto, ON

- Developed custom software solutions to optimize client management and streamline document processing, reducing claims processing time.
- Maintained thorough technical documentation to ensure knowledge transfer and system continuity.
- Provided customer-focused support, improving user satisfaction by 20%.
- Conducted accurate data entry and management tasks, ensuring compliance and audit-ready records.
- Assisted with client communications via email and telephone, delivering a positive customer experience.

Front-End Developer

October 2024- November 2024

Technoworld IT – Remote

- Designed and implemented an interactive programming project for students to learn foundational concepts in HTML, CSS, JavaScript, and Bootstrap.
- Created a responsive and user-friendly interface for the project, ensuring accessibility and compatibility across devices.
- Delivered coding lessons and tutorials alongside the project, enhancing students' practical understanding of web development tools and technologies.
- Collaborated with educational stakeholders to customize the project for different skill levels, ensuring relevance and engagement.
- Conducted debugging sessions and optimization of project components to demonstrate best practices in programming.

Projects

Smart Irrigation System

- Developed a microcontroller-based irrigation system using ESP32, soil moisture, and raindrop sensors. - Implemented remote monitoring via Blynk IoT platform to control water flow based on sensor readings.

CSV Data to HTML Project

- Imported CSV datasets using Python on a Raspberry Pi and created a responsive HTML page for displaying Toronto weather data.

Embedded Home Automation System

- Designed a home automation system using Arduino and IoT to control devices such as lights, fans, and security cameras remotely. - Integrated sensors for motion detection and temperature control, accessible via a mobile application.

Technical Skills

Languages: C/C++ (C++20), Python, SQL (MySQL, PostgreSQL), ARM Assembly, Arduino, HTML, CSS

Technologies and Tools: Multi-threading, C++ Boost, pandas, NumPy, PyTorch, Compiler technologies and IRs, WordPress

Selected Courses: Object-Oriented Programming, Deep Learning, AI, ML, Digital and Embedded Systems, Operating Systems, Computer Networking, Computer Architecture, Mathematics