

Sanjana Adiga

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EDUCATION

University of Western Ontario | London, Ontario

Bachelor of Engineering Science in Software Engineering

Expected Graduation: **April 2025**

- Related Coursework: Web Technologies, Databases, Data Structures/Algorithms, Operating Systems, Networking Principles, Microprocessors

SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, SQL, C++, MatLab

Tools: Oracle Cloud, Microsoft Azure, Raspberry Pi, Arduino, Figma, Confluence, Jira, Quartus, MicroCap

Frameworks/Libraries: Node.js, React, Angular, Vue, JavaFX, Pygame, Django, MySQL

EXPERIENCE

Superhero Database | London, Ontario

September 2023 - December 2023

Full Stack MERN Application

- Developed an interactive user interface using React, enhancing user engagement.
- Utilized Express.js, Node.js, MongoDB for efficient data handling
- Implemented Firebase, JWT for user authentication and secure session management
- Deployed the application on Amazon AWS, ensuring scalability and included features like email verification, admin tools, and REST API integration, demonstrating full-stack development expertise.

FitHub Fitness Database | London, Ontario

September 2023 - December 2023

GUI Dashboard to Manage Gym Membership

- Developed MySQL-based gym database system with a focus on member data and user interactions
- Created a dynamic front-end using React for interactive gym class bookings and equipment maintenance
- Utilized Python scripts and advanced SQL scripts for robust database operations and demonstrated proficiency in database manipulation and administration through tasks like inserting class details, managing users, and executing complex data queries

Institute for Research and Development on Inclusion and Society (IRIS) | Toronto, Ontario

Online Learning and Communications Intern

May 2022 – August 2022

- Elevated the UI/UX and CRM features of the company website, enhancing accessibility consulting services and event information, leading to a 23% improvement in user engagement and streamlined access to resources.
- Created marketing materials to promote The Accessibility Exchange, and assisted in the coordination and execution of virtual training sessions for clients and partners for onboarding of 100+ clients
- Executed targeted marketing campaigns for The Accessibility Exchange, resulting in a noteworthy 50% surge in website traffic and a subsequent 25% increase in client onboarding, demonstrating a significant impact on service adoption.

EXTRACURRICULARS

WE Mars | London, Ontario

September 2023 - Present

Software Communications Lead

- Software Communications lead at Western Engineering Mobile Advanced Robotics Society; responsible for leading a team of 5 in order to develop a Mars Rover to compete on the world stage at the CIRC and URC.
- Utilized Raspberry PI and ESP32 arduino to program necessary robotic functions such as: roaming, sending and receiving data to and from the driver, and stabilizing images.
- Developed an on-board rover system that transmits video data and coordinates, optimizing navigation and preventing collisions with obstacles and other rovers

Western AI | London, Ontario

September 2022 - Present

AI Developer

- Developed skills in AI and machine learning through hands on project regarding thyroid cancer detection

Chem-E-Car | London, Ontario

September 2022 - April 2023

Circuitry and Microprocessors Team Lead

- Developed a program on Arduino to detect changes in a photoresistor attached to motor system to optimize for precise car maneuverability

