ANSH SHAH

as21wd@brocku.ca | +1(437)-981-9227 | Git-Ansh | Ansh-Shah-499183225

EDUCATION

Brock University, St. Catharines, ON Sept 2022 - May 2026
BSc. (Honors) Computer Science

EXPERIENCE

Wolf-Rayet Technology, *Full-stack Developer* | India Dec 2021 - May 2022

- Developed a lightweight responsive website frontend using Javascript and HTML that included interactive user forms and 3D graphics using GSAP library compatible for both mobile and desktop.
- Implemented end to end portfolio creation and management functionality in backend using SQL, PHP and JSON.
- Enforced server-side input validation and sanitization against XSS, JavaScript, and SQL injection attacks.
- Deployed automated scripts using Cron, including the configuration of scheduled backups.
- Designed and implemented a CI/CD pipeline to optimize development workflow and ensure error-free deployments.
- Managed secure user authentication and session navigation using POST/GET APIs, cookies, and implemented password recovery with Twilio and email integration.

C-TAG, *Teaching Assistant* | India May 2022 - Aug 2022

- Mentored 60 students across three cohorts, providing instruction in Python, C, C++, and Java.
- Held lectures on implementing relational database management systems (RDBMS) like MySQL, conducted live coding sessions and provided insights on efficient implementation.
- Developed detailed guides aimed at enhancing conceptual comprehension, offering students structured resources to grasp complex programming principles effectively.
- Orchestrated a project guiding students in creating a vendor management system using Python and MySQL, and facilitated the development of a GUI utilizing Tkinter, nurturing practical and project management skills.

Coach, *Sales Associate (Contract)* | Niagara, Canada Oct 2013 - Jan 2024

- Provided customer service by assisting clients in selecting luxury handbags, accessories, and apparel tailored to their preferences and needs, resulting in consistently high customer satisfaction scores.
- Utilized product knowledge and brand expertise to drive sales and meet or exceed revenue targets, consistently achieving and surpassing monthly sales quotas.

SKILLS

Languages: Java, Python, C/C++, JavaScript, PHP, Bash
Software Tools: Git, Confluence, Docker, CMake, Doxygen, CI/CD, CorelDraw, BlueJ, MARS
Certifications: Python (Hackerrank), Python (C-TAG), C++ (C-TAG), C (C-TAG), Java (C-TAG)

PROJECTS

Traffic-Simulator | Course Project, *COSC 3P91* (Advanced Object-Oriented Programming) Jan 2024 - April 2024

- Designed a scalable traffic simulation game architecture in Java, showcasing strong software design principles and OOP expertise.
- Implemented dynamic player decision-making mechanisms, including strategic choices and modular code for easy feature additions.
- Developed fully functional Java code with encapsulation, inheritance, and polymorphism principles, ensuring maintainability and flexibility.
- Submitted a comprehensive project package with a well-documented UML Class Diagram, description document, and thoroughly tested code, highlighting proficiency in OOP and software development.

Hand Gesture Volume Control with Docker | Personal Project– *Python, OpenCV, MediaPipe, Tensorflow* (human-computer interaction, gesture recognition and control systems.) Sept 2023 - Jan 2024

- Gesture Recognition with TensorFlow: Leveraging TensorFlow and MediaPipe, the system accurately tracks hand movements and interprets user gestures, particularly focusing on the distance between thumb and index finger tips.
- Dynamic Volume Adjustment: Based on the recognized gestures, the application dynamically adjusts the system's audio output volume, providing users with intuitive control over the volume level.
- Docker Integration for Seamless Deployment: The application is containerized using Docker, ensuring consistent behavior across different platforms and simplifying deployment. Users can easily deploy the volume control system with Docker, minimizing setup time and reducing compatibility issues.