ANSH SHAH

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

EDUCATION

Brock University, St. Catharines, ON   Sept 2022 - May 2026
BSc. (Honors) Computer Science
Courses: Computer Architecture, Object Oriented Programming, Database Systems, Operating Systems

EXPERIENCE

Wolf-Rayet Technology, *Full-stack Developer* | India   Dec 2021 - April 2024
- 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.

Coach, *Sales Associate* | Niagara, Canada   Oct 2023 - 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.

C-TAG, *Teaching Assistant* | Ahmedabad, India   May 2022 - Sept 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.

SKILLS

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

PROJECTS

Hand Gesture-Based Mouse Control System | *Python, OpenCV, MediaPipe, TensorFlow, Docker*   May 2024 - Aug 2024
- Developed an advanced hand gesture recognition system using Python, OpenCV, MediaPipe, and TensorFlow, enabling intuitive mouse control via webcam.
- Implemented a convolutional neural network (CNN) to accurately recognize hand gestures, including click actions by detecting thumb and index finger touches.
- Integrated a Kalman Filter to enhance the precision and smoothness of mouse movements based on hand tracking data. Deployed the application using Docker, ensuring cross-platform compatibility and simplified setup.
- Designed for accessibility, the system provides hands-free interaction, useful in various environments where traditional input devices are impractical.