BHUMI SHAH

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Education

University of Waterloo   **Waterloo, ON**
Bachelor of Applied Science in Computer Engineering (Honours Co-op)   *Sept 2024 - May 2029*

Technical Skills

Languages: C, C++, PHP, Python, HTML/CSS, JavaScript, MYSQL
Developer Tools: Git, VS Code, Eclipse, KiCad, Jira, PyCharm, Postman, Pygame
Technologies/Frameworks: Rest API, Microcontrollers (STM32 Nucleo Board), Linux, GitHub, PowerBI, WordPress
Certificates: Python 3 Programming Specialization(University of Michigan)

Experience

Biz-Insights IT Solutions LLP | *Python, MYSQL, PowerBI*   **June 2024 – August 2024**
Software Engineering Intern, HR Data Management and Reporting System   *Newark, California, USA(Remote)*

- Developed an automated HR Data Management System to streamline data handling from SharePoint by creating scripts to automatically download and track Excel files.
- Consolidated data from multiple Excel files into a centralized SQL Server database, ensuring data quality by cleaning and standardizing formats, as well as removing duplicates.
- Built interactive Power BI dashboards to visualize key HR metrics such as employee distribution, service types, and training conversion rates. Enabled HR managers to perform ad-hoc analysis using filters, slicers, and drill-down features, and create customized reports for strategic decision-making.

Projects

Canteen Automation System | *HTML, CSS, JavaScript, PHP, MYSQL*   ⬡

- Developed a Canteen Management System with distinct admin and user interfaces.
- The admin side allows for daily menu selection, user management (adding and removing users), and food item management (adding and removing items), as well as viewing current orders by location.
- The user side enables users to check their balance and place food orders.

European Soccer Database | *Python, MYSQL*   ⬡

- Developed a Tkinter-based GUI application in Python to manage a soccer database, supporting the creation, reading, modification, and deletion of records.
- Generated bar graphs using Matplotlib to compare teams by matches won and players by goals scored, enhancing data analysis and visualization.

Temperature Sensor for Marine Life | *STM32 Microcontroller, C/C++*   ⬡

- Developed a real-time temperature monitoring system using C/C++, and microcontrollers for the Marine Conservation Society, enabling continuous water temperature tracking, data logging, and informed decision-making to support marine conservation efforts.

Hospital Management System | *Python, MYSQL*   ⬡

- Developed a console-based Hospital Management System using Python and MySQL
- Implemented basic CRUD operations to manage patient records, appointments, medical history, and room allocations.
- Developed functionality to generate final invoices based on treatment type and room allocation.

Innovative Developers Website | *HTML, CSS and JavaScript.*   ⬡

- Developed a website from scratch as a proof of concept for a construction company, featuring sections that highlight the company's completed projects, achievements, and details on ongoing projects.

Volunteer Work

JCI (Junior Chamber International)   **Jun 2017 - Oct 2023**
Education Outreach Volunteer

- Educated and empowered individuals by participating in WALKATHONs, helping break the taboo around menstruation and fostering a more informed and healthier society.
- Demonstrated exceptional teamwork and communication skills, working collaboratively with volunteers, staff, and beneficiaries to achieve shared goals while maintaining a positive and approachable demeanor.