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

Experience

Electrium Mobility | *Next.JS , PostgreSQL, Tailwind CSS*   **Jan 2025 – Present**
Web Development Intern   *Waterloo, Ontario, Canada*
- Developed and integrated inventory check functionality to verify product availability before checkout, ensuring smooth transactions and accurate stock levels. Utilized Stripe API for secure and efficient payment processing.
- Automated post-purchase processes, including sending order confirmation emails to customers and notifying Electrium Mobility with order details, while updating product inventory in the database to reflect real-time changes.

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, enabling admin to manage daily menu selections, add or remove users, manage food items, and track current orders by location.
- Designed user interface features to allow users to check their account balance, place food orders, and view order history, streamlining the ordering process and enhancing user experience.

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 decision-making to support conservation.

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

Volunteer Work

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

Education Outreach Volunteer
- Participated in WALKATHONs to break the taboo around menstruation, empowering individuals and fostering a healthier society while demonstrating strong teamwork, communication, and collaboration with volunteers, staff, and beneficiaries.