Brad Ramnarinesingh

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Career Objective

Computer science student aiming to leverage strong problem-solving and technical skills in software development and web design. Passionate about coding and problem-solving, seeking to contribute to innovative projects in a dynamic team. Eager to apply my programming knowledge and web technologies in a challenging environment.

Education

University of Toronto   Toronto, ON
Honors Bachelor of Science in Computer Science, Mathematics, and Statistics   *Sept 2021 - June 2025*

Technical Skills

Languages: Python, Java, R, JavaScript and HTML/CSS

Relevant Coursework

- **Programming Fundamentals** - Elementary data types, control flow, functions, classes, and problem-solving in Python.
- **Advanced Programming Concepts** - Abstract data types, data structures, encapsulation, OOP, efficiency analysis, and recursion.

Projects

Huffman Lossless Compression System | *Python*
- **Efficient Algorithm Implementation:** Developed a Huffman Lossless Compression algorithm in Python, emphasizing the efficient use of data structures and advanced programming techniques for optimal compression results.
- **Effective Data Handling:** Implemented the algorithm using Python's extensive built-in functions and libraries to achieve high levels of data compression efficiency.
- **File Management and Data Integrity:** Managed comprehensive file input/output operations and maintained data encoding and decoding accuracy, ensuring data integrity throughout the compression process.
- **Reliability Through Error Handling:** Incorporated robust error handling measures to enhance the tool's resilience and reliability.
- **Rigorous Testing and Validation:** Executed detailed testing protocols to ensure the tool's effectiveness in accurately decompressing files.

Telecom Workflow Optimization System | *Python*
- **Strategic Data Management:** Engineered a Python-based management system designed to optimize operational workflows within a telecommunications company, focusing on the effective organization and tracking of customer contracts and phone lines.
- **Dynamic Billing and Event Processing:** Designed and implemented dynamic features for real-time processing of call events and management of billing cycles, significantly enhancing billing precision aligned with customer contract terms.
- **Innovative User Interface Design:** Developed a comprehensive Graphical User Interface (GUI) equipped with advanced filters for the in-depth visual analysis of call data, facilitating better decision-making and service improvements.

Work Experience

Web Developer/Designer | January 2022 – Present
- Designed and developed visually appealing, functional websites with a focus on user-friendly, responsive layouts.
- Skilled in HTML, CSS, and WordPress; adept at custom theme development and plugin integration.
- Troubleshot and resolved technical issues to ensure optimal website performance.

Sales Associate | *Peel Hardware & Supply*   May 2023 – Present
- Managed product restocking and sales floor organization for optimal shopping experience.
- Delivered excellent customer service, handling queries and transactions with professionalism.