

SAMEEP SINGH

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EDUCATION

BACHELORS OF COMPUTING

Course in Computer Science
University of Guelph | 2022 - 2026

WORK EXPERIENCE

EVENT AND SOCIAL MEDIA MANAGER

Guelph Cyber Security Society |Seasonal | 01/2024-Present

- Managed and curated content for social media accounts, increasing engagement by 25% over three months.
- Created lecture slides for weekly learning workshops.
- Created social media graphics for weekly posting.

MACHINE OPERATOR

Magna International | Contract Full time | 06/2023 - 09/2023

- Operated and maintained various production machines in accordance with safety and quality standards
- Assisted in troubleshooting and resolving machine malfunctions
- Worked with a team of 6 team members to manage the tasks assigned
- Developed a strong understanding of the technical aspects of machine operation through working with engineers.

Personal projects

Mancala Game using OOPS in java

- Developed a GUI for Mancala using Java Swing, enhancing user interaction and visual appeal.
- Applied OOP principles like encapsulation and inheritance for structured and maintainable code.
- Crafted classes for board elements, utilizing polymorphism for flexible game functionality.
- Integrated event-driven programming with Java event model for responsive gameplay mechanics.

Advanced Hash Table Implementation and Analysis

- Developed an associative array tool backed by a hash table, implemented in C, as part of a library-based design
- Programmed custom hash functions and probing strategies in hash-functions.c and hash-table.c, enhancing data insertion, querying, and deletion efficiencies.
- Employed diverse hashing and probing algorithms, including a unique hashing strategy, ensuring robust and efficient data management.

Hospital Management System

- Developed a Hospital Management System using Python and MySQL, providing a user-friendly interface for efficient hospital operations.
- Utilized the MySQL connector library to establish a connection to the MySQL database for managing hospital data.
- Implemented advanced search functionality, allowing users to search for staff or patients by phone number or ID.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS,
Developer Tools: Git, Docker,VS Code, Visual Studio, PyCharm, IntelliJ

Awards and Acknowledgements

- Engineering & Physical Sciences Dean's Honours List Winter 2023- University of Guelph
- Member of the Student Council - Mount Carmel School