

Jaspreet Singh

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EDUCATION

University at Buffalo, School of Engineering & Applied Sciences
Bachelor of Science in Computer Science

Expected May 2026

Erie Community College, The State University of New York
Associate of Science in Computer Science

Aug 2022 - May 2024

Relevant Coursework Computer Organization, Calculus, Data Structures, Differential Equations, Digital Systems, Discrete Structures, Programming Languages, Systems Programming, Distributed Systems, Machine Learning

SKILLS

Programming Languages: Assembly X86, C, C++, CSS, HTML, Java, Javascript, Python, R

Language: English, Hindi, Punjabi

Other: Teamwork, Leadership, Adaptability, Self Confidence, Problem-Solving, Time Management

Tools: GitHub, Git, Jupiter Notebook, Linux, Microsoft Office Suite

WORK EXPERIENCE

Kaleida Health, IT Intern
Buffalo, NY

May 2025 – August 2025

- Supported the **Clinical Network Services (CNS) department** at Buffalo General Hospital by troubleshooting hardware, software, and network issues across multiple departments, improving technical uptime and response time.
- Assisted with imaging, configuring, and deploying laptops for hospital staff to ensure seamless onboarding and system readiness.
- Gained hands-on experience in server room operations, including wiring, rack setup, and configuration of new servers at Buffalo General Hospital and the Larkin Building.
- Collaborated with the Cybersecurity team to monitor network activity, review security logs, and assist with access management to improve system security and compliance.

PROJECTS

Maze Escape Solver using DFS and BFS & Shortest Path Finder (C++) in C++

- Developed a program to solve maze escape problems using Depth-First Search (DFS) and Breadth-First Search (BFS) algorithms.
- Implemented functionality to identify paths through mazes of varying sizes and complexity, highlighting differences in traversal strategies.
- Built a program to compute shortest paths in weighted graphs using Dijkstra's and Floyd-Warshall algorithms.
- Designed a flexible system to accept user-defined graphs and dynamically update weights for edge cases.

Employee Pay Calculator (Java)

- Designed and developed an employee pay calculator application using Java and Java Virtual Machine (JVM).
- Implemented a tax calculator module to compute tax deductions based on employee income and applicable tax slabs.
- Designed a user-friendly interface to input employee details, including salary and allowances, and output accurate net pay calculations.

LEADERSHIP EXPERIENCE

Buffalo Bhangra (President)

August 2022 – Present

- Led a team of 40 students in executing successful fundraising efforts and supporting team goals effectively.
- Organized a large-scale cultural event at the Center for the Arts Main Stage, managing all event logistics and ensuring smooth execution for a successful performance.

Sikh Student Association, University at Buffalo (Treasurer)

August 2024 – Present

- Build and maintain partnerships with local organizations to support club initiatives and events.
- Develop outreach strategies to engage the community and increase event participation.