Shane Bourdeau
shanebourdeau1126@gmail.com
518-801-3382

Education:
Siena College, Loudonville, NY 2024 - 2026
The College of Saint Rose, Albany, NY 2022 - school closure
Major: BS in Computer Science, expected graduation, May 2026
Minor: French
GPA: 3.9
Relevant courses: Design and Analysis of Algorithms, C programming in Unix, Web Application Development, Database Management Systems, Parallel Processing & HPC, Robotics, UX design
Certification: IRB CITI certification for human subjects research, February 2025

Skills:

Programming languages: Java, C, Python, JavaScript, HTML and SQL
Parallel programming software: MPI (Message Passing Interface), Pthreads, OpenMP, and Java Threads
Robotics software: ROS (Robot Operating System)
Other software: Git, Microsoft Office, Figma
Spoken languages: French (B1 CEFR).

Honors:

Upsilon Pi Epsilon, Honors Society, Siena College, Spring 2025
President's List, Siena College, Fall 2024
Dean's List, The College of Saint Rose, Fall 2022, Fall 2023

University Projects:

Member, Parallel Processing Project, Siena College, December 2024
- Parallelized Dijkstra's Algorithm with Java Threads to find the shortest path between two coordinates.
- Successfully optimized the algorithm with an input of up to 6,700 coordinates.

Member, Robotics Project, Siena College, December 2024
- Collaborated with a partner to program a robot capable of navigating a maze, retrieving objects, and returning them to the starting point using Python and ROS.
- Enabled the robot to repeat the process, locating and collecting additional objects within the maze.
- Presented the robot at Siena College's annual Roboshow, showcasing its features and functionality