

JAY NASH

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Education

Connecticut College

2022 – 2026

Bachelor of the Arts in Computer Science and Physics

New London, CT

- Current GPA: 3.74
- Awards: Sophomore Computer Science Award (May 2024), Deans High Honors (Fall 2022, Spring 2023), Presidential Scholar (January 2023)
- Current Courses: Robotics, General Physics II, CS Research Seminar, Elementary Russian II

Relevant Coursework

- | | | | |
|------------------------------|-------------------------|------------------------|-------------------|
| • Computational Intelligence | • Computer Organization | • General Physics | • Data Structures |
| | | • Discrete Mathematics | • Calculus C |

Experience

Computer Science Department Teaching Assistant

Aug 2023 – Present

Connecticut College

New London, CT

- Teaching assistant for COM212 - Data Structures, guiding students through technical assignments.
- Part time position, 4 hours per week with 2 class sessions.

Student Network Administrator

Aug 2023 – Present

Connecticut College

New London, CT

- Worked on issues related to network connectivity, phone system management, and asset tracking.
- Part time position, 6 hours per week.

Undergraduate Summer Research Internship

May 2023 – Aug 2023

Connecticut College

New London, CT

- Undergraduate Research Student in the Autonomous Agent Learning Lab under the supervision of Professor Gary Parker, conducting a continuing line of research into a genetic algorithm that can replicate speciation.
- Full time position, 40 hours per week

Projects

XPilot DCNN for Behavioral Cloning | *Neural Networks, Machine Learning, Pytorch*

Nov 2023 – Dec 2023

- Developed a DCNN classifier for behavioral cloning for the game XPilot.
- Created a Sqlite3 database of training data collected by custom expert-system bots.

Replication of Speciation | *Java, Genetic Algorithms, Machine Learning*

May 2023 – Aug 2023

- Conducted research on the application of genetic algorithms in replicating speciation.
- Wrote and submitted a conference paper on this topic that is currently under review.

Technical Skills

Languages: Java, Python, C++, R, HTML/CSS

Developer Tools: PyTorch, PyGAD, ROS-Noetic, Github, Linux

Other Skills: Research, Troubleshooting, Communication, Self-Direction

Leadership / Extracurricular

Connecticut College, Priorities, Planning, and Budget Committee

Fall 2023 – Present

Connecticut College

New London, CT

- Invited to serve on a committee of senior faculty and administrators to advise the president of Connecticut College on the financial needs of the college.

Student Government Association, Finance Committee

Fall 2022 – Present

Connecticut College

New London, CT

- Determine yearly budgets for college clubs with a total budget of \$150k.
- Determined specialty funding allocations during the year for unexpected club expenses.