

Benjamin Ledoux

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EDUCATION

Northwestern University, Evanston, Illinois

Major: Computer Science

Relevant Courses:

Connecticut College, New London, Connecticut

Major: Computer Science, Dean's High Honors

Selected Scholar: Ammerman Center For Arts and Technology

Relevant Courses: Data Structures, Discrete Math, Computer Organization, Algorithms, Software Engineering, Object-Oriented Software Design, Entertainment Software Design, Graphics & Virtual Environments, Digital Sound Processing

Master of Science expected Fall 2025

GPA: -

Bachelor of Arts, May 2024

GPA: 3.86

Certificate, May 2024

SKILLS

Programming: Python, C#, Java, C++, JavaScript, Unity C#, Unreal Engine 5

INNOVATION AND PROJECTS

Evolving Bot Bowl Agent with Genetic Algorithm, Python, Research

Spring 2024

- Using a genetic algorithm to evolve a rules-based expert system into a competitive Bot Bowl agent
- Variables in the expert system are exposed to the genetic algorithm for better performance against a baseline

Dynamic Environment Generation, Unity C#, Senior Integrative Project

Fall 2023 - Spring 2024

- General-purpose tool for procedurally generating tilemaps in the Unity Real-Time Development Platform.

Diegetic Guidance in Virtual Environments, Unity C#, Research

Fall 2023

- Researching several diegetic methods for guiding users through virtual environments.

Overbrewed, Unity C#, Game Jam

Winter 2023

- For 3-day Cozy Winter Game Jam, developed solo, 2D top-down view arcade game
- Overcooked parody, player makes hot cocoa orders for guest using ingredients found around kitchen

TTRPG Charactermancer, Python

Spring 2022 - Present

- Text-based character creation and management system for the Fallout 2d20 TTRPG

[See Website for Further Projects](#)

RELEVANT EXPERIENCE

Ammerman Center for Arts and Technology, Connecticut College, New London, CT

January 2021 - May 2024

Scholar

- Competitive Certificate Center for developing integrative projects relating to arts and technology over 3 years
- Develop a project working with procedural generation for creating dynamic environments
- Conduct research to present at the All College Symposium during the senior fall semester

Computer Science Department, Connecticut College, New London, CT

August 2022 - May 2024

Teaching

- Assisted students with projects and work during group sessions and class

Assistant

- Graded large amounts of programming assignments and students' weekly work, leaving insightful feedback
- Assisted faculty by facilitating learning Python, Computer Organization, and Unity C# skills in large groups

Massachusetts Task Force 1, Beverly, MA

June 2023 - August 2023

Intern

- Prepared tools and resources to assist in daily operations and network upkeep
- Developed a network map of Task Force resources
- Worked with and maintained security networks and systems

GameStop, Salem, NH, and Dracut, MA

May 2021 - August 2021

Associate

- Used internal software to manage accounts and store resources, organized store

LEADERSHIP & COMMUNITY ENGAGEMENT

CS Student Advisory Board, New London, CT

August 2023 - May 2024

Communications

- Planned and prepared for events, designed posters and emails, managed social media accounts

Manager

- Contributed to new resource page for CS students formatted as a GitHub repository

Varsity and Club Volleyball/Soccer, Methuen, MA and New London, CT

August 2017 - May 2024

Captain, Player

- Captained varsity high school teams, brought experience to the university club teams
- Received Unsung Hero Award for commitment to team spirit