

# Benjamin Ledoux

📍 Chicago, IL    ✉ bledoux2002@gmail.com    ☎ 603 362 3841    🔗 bledoux2002.github.io  
in benjamin-j-ledoux    🔗 bledoux2002

## Education

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**Northwestern University** Sep 2024 – Dec 2025  
*MS in Computer Science*

- GPA: 3.67/4.0
- **Coursework:** Algorithm Design and Analysis, Artificial Intelligence, Machine Learning

**Connecticut College** Sep 2020 – May 2024  
*BA in Computer Science*

- GPA: 3.86/4.0
- **Coursework:** Algorithms, Software Engineering, Computer Architecture, Data Structures, Object-Oriented Software, Digital Sound Processing

## Experience

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**IT Support** Beverly, MA  
*Massachusetts Task Force 1* June 2023 – Aug 2023

- Mapping out local fiber network
- Setup and maintenance of security camera network

**Ammerman Scholar** New London, CT  
*Ammerman Center for Arts and Technology* Jan 2022 – May 2024

- Competitive certificate program
- Conducted independent study in intersection of art and technology (See [Procedural Generation Framework](#))

**Teaching Assistant** New London, CT  
*Connecticut College Computer Science Department* Sep 2022 – May 2024

- Tutoring of Intro, Computer Architecture, and Entertainment Software courses, including office hours and conducting labs
- Used proficiency with Python, C#, and Unity to guide students in assignments and projects

## Projects

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**Bot Bowl Evolution** [↗](#)

- Evolved a competitive agent for [Bot Bowl](#) [↗](#) using a genetic algorithm to refine an expert system.
- Tools Used: Python, OpenAI Gym

**Procedural Generation Framework** [↗](#)

- Developed a framework for procedural generation of tilemaps in Unity, primarily for world generation
- Tools Used: C#, Unity

**Multiple Fundamental Frequency Estimation** [↗](#)

- Developed a program to analyze a sound file and determine the fundamental frequencies present
- Tools Used: MatLab

## Technologies

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**Languages:** Python, C++, C#  
**Technologies:** Unity