

# Max Davis

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## Education

**Connecticut College**, New London, CT

**Major:** Computer Science

**Honors:** Dean's High Honors, Connecticut College Grant, Dean's Scholarship, The Franklin Lawrence Scholarship

**Computer Skills:** Python, MATLAB, Java, React, Node.js, MySQL, HTML, JavaScript, CSS, Microsoft Office, Socket.io, Google Suite, and Canva

**Soft Skills:** Communication, leadership, adaptability, critical thinking, creativity, and time management

**Personal Interests:** Music composition, recording, production, and performance on several instruments including saxophone

**Language Skills:** Spanish (beginner)

**South Portland High School**, South Portland, ME

Bachelor of Arts, expected May 2028

Cumulative GPA 3.96

Diploma awarded *summa cum laude* June 2024

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## Select Academic Experience

**Frontiers in Computer Science**, Computer Science, Connecticut College, *Fall 2025*

- Examines and produces code for front/backend applications
- Builds off class readings with independent research to complete projects, exercising adaptability
- Knowledge of modern physical/digital infrastructure: Cloud computing, networks, routing, bandwidth, CPUs, GPUs, datacenters, kubernetes, full-stack development, AI-assisted development

**Data Structures**, Computer Science, Connecticut College, *Spring 2025*

- Expressed programs in Java, compiled and ran code with Command Prompt
- Analyzed the run-time and storage efficiency of different algorithms
- Applied various data structures to increase the flexibility and speed of code
- Debugged Java code and interpreted Command Prompt error messages

**Multimedia**, Computer Science, Connecticut College, *Spring 2025*

- Used matrix operations in MATLAB to analyze and manipulate images and sounds
  - Created filters such as blur, edge detection, sharpening tools, green-screen effects, red-eye removal, etc.
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## Projects

'Everyone's It Tag' **Frontiers in Computer Science**, Connecticut College, Fall 2025

- Created and deployed an online multiplayer Everyone's It Tag game through an Azure Ubuntu VM utilizing socket.io, React, Express, Node.js, HTML, CSS, and GitHub
- Collaborated in a 3-person team to plan the architecture, divide work, and communicate how our components would work together

Social Media Application, **Frontiers in Computer Science**, Connecticut College, Fall 2025

- Created and deployed a Vite-scaffolded React and Express project in [Node.js](#), HTML, CSS, [Socket.io](#), and MySQL through an Azure Ubuntu VM with version control using GitHub and GitHub Desktop
- Built functionality to log in/out, (un)friend, chat, post/delete events and notes, and edit a bio

Audio Processing, **Independent Study**, Connecticut College, Fall 2025

- Meets once a week with an advisor to discuss/assign weekly readings from *Musimathics* or review technical progress
  - Develops algorithms to take FFTs of sound waves, convert them to MIDI signals, create a spectrogram of their harmonics, interpolate data, and resynthesize sounds to prepare data for AI analysis
  - Uses MATLAB to analyze, process, and visualize data
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## Work Experience

**Connecticut College Intro to Computer Science TA**, New London, CT, *Fall 2025*

- Instructs students based on their individual needs and understanding of the present topic
- Inspects and debugs students' code

**Connecticut College Arboretum Horticultural Assistant**, New London, CT, *Fall 2024 - Fall 2025*

- Assists a team in removing brush, mulching, transplanting, weeding, watering, and removing invasive and sick species
- Operates a Kubota RTV through a network of trails