

# Dylan Clements

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## Education

### Clark University

Expected May 2027

B.A. in Computer Science, Minor in Political Science, GPA: 3.92 / 4.00, Dean's List Fall 2023-Fall 2025

#### Relevant Coursework:

AP CS P, Discrete Structures, Data Structures, Algorithms, Automata Theory, AI Ethics, Assembly Language & Computer Organization, Internet of Things, Web Development, Analysis of Programming Languages

## Skills

**Languages:** Python, Java, JavaScript, C, C#, C++, HTML, CSS, x86 Assembly, R, SQL, OCaml

**Tools:** Qdrant, Mongo, Git VCS, VS Code, IntelliJ IDEA, Figma, OpenAI api, Gemini api, JSON, LaTeX

**Frameworks:** React, Django, Bootstrap, LangChain, Tailwind, FastAPI, Flask, NumPy

## Experience

### Software Development Intern

June 2025 - Present

#### Brazilian Creative Learning Program, MIT Media Lab

- Working in a team led by the Director of the Brazilian Creative Learning Program at the MIT Media Lab to create a Generative AI driven tool to help educators make creative lesson plans using TypeScript, PostgreSQL, LangChain, OpenAI api, and Tailwind.
- Developed a vector database using existing approved lesson plans to provide semantically relevant examples for the LLM to use, improving quality of all the lesson plans generated.

### Student Researcher w/ Dr. Shuo Niu

October 2024-Present

#### Clark University Department of Computer Science, Human-Computer Interaction Lab

- Designed UI/UX for an Aphasia therapy tool, creating high-fidelity prototypes using Figma.
- Investigated content creation GenAI applications for People with Disabilities through administration and analysis of interviews, co-authoring an academic paper on the findings.
- Developing a one prompt storyboard creation tool advised by findings of the previous study using Django, Python, Gemini api, and Bootstrap.

## Projects

### Unity Notes - HackHarvard 2025

October 2025

- Collaborated in a 4 person team at HackHarvard 2025 to create a decentralized, peer-to-peer, platform-agnostic community notes system.
- I developed the vector database and integrated Gemini for embedding generation, note summarization, and context retrieval.
- Built using JavaScript, SQLite, Qdrant, Python, and the Gemini api with a Chrome Extension frontend.

[GitHub Repo](#)  
[Devpost](#)

### AutoBots - Clark Fall Hackathon 2025 - 3rd Place

November 2025

- 3rd at the 2025 Fall Clark hackathon, an online platform where users create games and compete by programming Python bots to play against each other.
- I was primarily responsible for the backend, creating real-time communication between users and the server, running user-submitted Python code in the browser sandbox on their end, and securely running user submitted game logic server-side.
- Made with Python, JavaScript, FastAPI, React, Websockets, CodeMirror, Pyodide, Piston, and MongoDB.

[GitHub Repo](#)  
[Devpost](#)

### Clark Ultimate Frisbee Team Website

December 2025

- Created the the official website for the Clark University Ultimate Frisbee team with my teammate.
- Features team info, history, recruitment, schedules, and custom tournament sign ups.
- The site is built using HTML, CSS, JavaScript, and MongoDB.

[GitHub Repo](#)  
[Website](#)

## Leadership

### Clark University Association for Computing & Machinery (ACM) Chapter President

April 2024-Present

- Founded the ACM Chapter at Clark University, serving as the Club President.
- Organize events to promote collaboration and support in the student body.

## Interests/Extracurriculars

Hackathons, International Politics, History, Philosophy, Clark Ultimate Frisbee, Clark Community Computing Club, Disc Golf, Golf, Skiing, Fencing, Former tennis coach at Sudbury Swim & Tennis and bartender/waiter at the Oarweed Restaurant, Dual US/UK Citizen