Dylan Clements

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Education

Clark University — Worcester, MA
B.A. in Computer Science, Minor in Political Science, GPA: 3.92 / 4.00 — Expected May 2027

Relevant Coursework:
AP CS P, Computer Programming, Honors Intro to Computing, Discrete Structures, Data Structures, Algorithms, Automata Theory, Game Design Fundamental , AI Ethics, Data Computing & Society, Assembly Language & Computer Organization, Internet of Things, Web Development, Analysis of Programming Languages

Honors: Dean's List (Every Semester, Fall 2023-Fall 2025)

Skills

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

Relevant Experience

Software Development Intern — Boston, MA
Brazilian Creative Learning Program, MIT Media Lab — June 2025 - Present

- 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 as reference when generating ideas and plan components.
- Prompt engineered using the relevant lesson plan example feature, improving quality of all the lesson plans generated.

Student Researcher w/ Dr. Shuo Niu — Worcester, MA
Clark University Department of Computer Science, Human-Computer Interaction Lab — October 2024-Present

- Prototyped UI/UX for an Aphasia therapy tool, helping design the workflow and 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.

Significant Projects

Unity Notes - HackHarvard 2025 — October 2025
GitHub Repo
Devpost

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

AutoBots - Clark Fall Hackathon 2025 - 3rd Place — November 2025
GitHub Repo
Devpost

- Placed 3rd at the 2025 Fall Clark hackathon in a 4 person team with an online platform where users can create games and compete in one-on-one competitions by programming Python bots to play against each other using Python, JavaScript, FastAPI, React, Websockets, CodeMirror, Pyodide, Piston, and MongoDB.
- 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.
- Presented to a panel of Professors and alumni with a live demo.

Clark Ultimate Frisbee Team Website — November 2024
GitHub Repo
Website

- Created the the official website for the Clark University Ultimate Frisbee team with my teammate.
- Features information about the team, photos, the current practice schedule, tournament sign ups, rosters, scores, the history of the club, and the team sign up. With an admin login system, future team captains can update the site easily with new practices, tournaments, rosters, and scores.
- The site is built using HTML, CSS, JavaScript, and MongoDB for data storage.

Leadership

Clark University Association for Computing & Machinery (ACM) Chapter President — April 2024-Present

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

Interests/Extracurriculars

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