

# Jaden Leung



Jaden's Website



GitHub



LinkedIn



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## PROJECTS

### VIRTUAL-CUBE.NET | HTML, CSS, JS

2022 - Present

- Created website allowing people to cube online; implemented the F2L algorithm for the cube to solve itself under 70 moves
- Used the EasyCam and P5.js libraries to allow for virtual cube color, shape, and dimension customizations (1×3×3, 2×2×2, 2×3×3 cubes, etc.)
- Used Javascript to allow webcam to copy physical cube position onto virtual cube position, implements algorithms helping users solve their physical Rubik's cube

### SYMPTOCARE | PYTHON, OPENAI, GPT

Feb 2024

- Implemented GPT integration using OpenAI to give a second opinion on a disease search and diagnosis platform; won Best Overall Hack at TFC Hackathon 2024

## WORK EXPERIENCE

### J.W. HAYDEN RECREATION CENTRE | GROUP LEADER

Sept 2021 - Present | Lexington, MA

- Supervise 15+ K-5th graders, effectively collaborate with coworkers to ensure the safety of the children, resulting in being named Employee of the Month
- Adapt to different ages and skills of children by leading appropriate sports and arts activities, designing new group games, and teaching how to solve Rubik's cube

## VOLUNTEERING EXPERIENCE

### LEXINGTON YOUTH STEAM TEAM | SOFTWARE DEVELOPER

Oct 2021 - June 2023 | Lexington, MA

- As a leader of 8-person team, organized and created website for a library science presentation using HTML, CSS, and Bootstrap, resulting in the highest turnout in any library presentation
- Led scavenger photo hunt project for our local library and built its website for players, which boosted exhibition attendance
- Made web design tutorials and presented them in a townwide hackathon, inspiring students to help with a library fundraising website

### HIGHSCHOOLTUTORS.ORG TUTOR | SCRATCH/JAVA TUTOR

Sept 2020 - June 2023 | Lexington, MA

- Taught Scratch and Java programming to middle schooler, inspiring student to make own Connect 4 and Battleship games
- Designed core coding curriculum based on student's progress assessment, mastered problem-making and presentation skills

## AWARDS

2024 Winner of Tech For Change: Civic Tech Hackathon 2024  
2022, 2023 US Presidential Volunteer Award (Silver)

## QUALIFICATIONS

### PROGRAMMING

Java, HTML, CSS, JavaScript, React, C++, C, Python, C#, OpenAI, LaTeX

### TOOLS/PLATFORMS

Git, WordPress, VS Code, Vim, Linux, Figma

### SOFT SKILLS

Excellent leadership experience gained through leading town's STEAM team and through childcare

Solid communication skills, willing to work with anyone

## EDUCATION

### UNIVERSITY OF WATERLOO

#### Computer Science

Faculty Average: **99%**

Sep 2023 - Present | Waterloo, Ontario

## RELEVANT COURSES

### ELEMENTARY ALGORITHM DESIGN AND DATA ABSTRACTION

Learned algorithm design and analysis, information management, and programming mechanisms and methodologies

### DESIGNING FUNCTIONAL PROGRAMS: 100%

Learned functional programming, abstraction, and recursion using Racket

### FOUNDATIONS OF DATA SCIENCE, UMASS AMHERST PRE-COLLEGE

Used Python's Panda library and Matlab to perform data analysis