

# Joseph Marcinowski

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## Professional Summary

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I am a passionate and curious computer science student at Bridgewater State University. My goal is to develop meaningful healthcare software. Sharing what I learn in STEM is very rewarding.

## Experiences

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### Wang Research Laboratory - Massachusetts General Hospital

#### Data Analyst Intern | 08/2022 - 09/2022

I have worked as a data analyst intern at the Wang lab, which researches ovarian cancer. I did single-cell human genome sequencing and mapping based on laboratory measurements. Additionally, I developed scripts for the researchers to automate repetitive tasks and run asynchronous batches of single-cell sequencing to speed up cancer research.

### Hopkinton Public Library | Hopkinton, MA

#### Chess Teacher | 11/2022 - 06/2023

I taught and played chess with elementary and middle school students. I did this every other Tuesday at the town's public library and help lead the club. I taught concepts such as forks, pins, opening theory, and overall strategy.

### Milford Regional Hospital Fund Raising Club

#### Secretary | 02/2022 - 05/2023

Each Thursday, I organized and help lead dozens of students in our school's Milford Regional Medical Center club. The clubs' goal was to fundraise as much money as possible to support our local hospital. We have raised hundreds of dollars and have done multiple fundraisers.

### Code Club

#### President | 09/2021 - 05/2023

Each Wednesday, I led our school's Code Club. Code Club was an opportunity for Hopkinton High School students to learn how to program. I taught everything from introductory concepts like variables to advanced topics such as web programming.

### VEX IQ Slapshot Southern New England Championship | Medway, MA

#### Head Referee | 03/2023 - 03/2023

As a head referee, I was responsible to act as a liaison between teams and scorekeeper referees. I identified rule violations and made all final scoring and ruling decisions. I worked to ensure matches were running in a safe and timely manner. The winners of this regional competition went on to compete in Dallas at the VEX Robotics World Championship.

### Unfounded Organization

#### Scientific Writer | 07/2022 - 10/2022

As a scientific writer for the Unfounded organization, I mainly wrote on computer science developments. The organization aims at connecting common people with researchers. I was responsible for interviewing researchers and publishing 2 articles a week.

### Congregation B'nai Shalom

#### Audio Visual Volunteer | 07/2021 - 02/2022

I assisted in setting up the audio-video equipment for the Rabbi, musicians, and families to be heard and live-streamed. My responsibilities included setting up cameras, computers, microphones, and recording software. Once I was done, I was responsible for balancing audio for the live stream, controlling camera angles, and switching between which camera was being displayed.

### Scouts Of America

#### Patrol Leader | 01/2018 - 07/2020

As a patrol leader, my responsibility was to plan and lead my patrol in meetings. I represented my patrol during annual planning conferences and coordinated activities when my patrol members participated.

## Technologies

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Experienced with:

- Python3
- C++
- Ubuntu/Debian/Fedora
- HTML/CSS/Bootstrap
- Arduino/ESP32

#### Proficient with:

- R
- VueJS
- ReactJS
- Django
- React-Native
- MongoDB
- Tailwind CSS
- SASS
- Firebase
- SQL/SQLite

## Awards

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#### Hackathon: Space City Hacks (June 17-19, 2022)

- 1st Overall Winner of 173 participants or 28 teams ([product demo](#))

#### Hackathon: Tech Optimum Hacks 2022 (July 15-17, 2022)

- Honorary Mention - 313 participants or 49 teams intended for university engineering students ([product demo](#))

#### VEX Robotics (2022-2023 season)

- Double qualified for VEX Worlds 2023 in Dallas Texas and was awarded with the Google Community Award.
- Won the Design Award from the Southern New England Regional Championship, the region that has 169 teams.
- Wrote C++ machine learning algorithms from scratch to optimize a proportional-integral-derivative (PID) controller's gains resulting in a perfectly tuned turn.
- Wrote a machine learning algorithm from scratch to find a plausible shortest path between VEX robotics field elements (a NP-hard problem), winning us the Think Award in a 52 team competition in Ridgefield CT.
- Lead programmer of the team

#### VEX Robotics (2021-2022 season)

- Won 4 Excellence Awards, the Southern New England Innovate Award, and 2 Design Awards which allowed us to attend the worlds robotics championship in Dallas where we won the Google Community Award and VEX Worlds Innovate Award
- Lead programmer of the team

#### VEX Robotics (2020-2021 season)

- Remotely attended VEX Worlds
- Lead programmer of the team

#### VEX Robotics (2019-2020 season)

- Qualified but couldn't attend VEX Worlds due to COVID restrictions
- Lead programmer of the team

## Education

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**Bridgewater State University | Bridgewater, MA**

**Computer Science | 06/2027**

Received Crimson Merit Scholarship, accepted into the Honors Program

## Miscellaneous

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5 VEX World Qualifications, 4 years of High School Robotics experience, 2 years of Middle School Robotics experience