

## Jacob Hough

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GitHub: <https://github.com/Houghelpuff>  
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### Education

University of Colorado Boulder

Expected Graduation: May 2021

**B.A. Computer Science - GPA: 3.0**

### Work Experience

**Youth Sports Official/Coach - YMCA of Northern Colorado**

April 2018 - Present

- Planned games and practices for kids age 8-14
- Refereed games
- Ran tournaments
- Communicated with parents and other admins about the state of the department

### Leadership Experience

*CU Marching Band Squad Leader - CU Marching Band*

August 2017 - Present

- Led a group of 4-8 trumpets with learning the fundamentals of marching, difficulties in music, and provided advice for classes and college life when necessary.

*Vice President of Interact Club - Longmont High*

August 2015 - May 2017

- Assisted with the daily tasks of running a volunteer group in high school
- Raised \$2,500 to build new bathrooms for a school in Haiti
- Kickstarted a program in Longmont where high schoolers would go read to a local elementary school and speak about different topics like conflict resolution.

### Projects

*Markov Chain Sentence Generator - @theRealShayon*

- Created a sentence generator based off a Markov Chain in C++ for the final project of a data structures class. Concepts of graphs and Markov Chains generated random sentences and then feed them to a Twitter bot we had setup in Python.

*Tournament Creator and Stat Keeper for video game - Smash Hub*

- Collaborated with a team to create an application to keep track of stats for players of the video game "Super Smash Bros: Ultimate" and create seeded tournaments.

### Technical Skills

- Programming Languages: C/C++, Python, JavaScript, BASH
- WebApp: SQL, PostgreSQL, Angular, React, Flask, HTML5/CSS/Bootstrap, Electron.js
- Proficient with Git, GitHub, UNIX command line
- Software: Adobe Lightroom and Photoshop, Figma, VirtualBox, VMWare, Microsoft Suite