

## Derek Read

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<https://github.com/CUderekread>

### EDUCATION

**University of Colorado**, Boulder, CO

Expected Graduation: May 2020

- Completing B.A. in Computer Science (Sophomore)
- Minor in Business and Education

### CORE SKILLS & INTERESTS

- Excelled in Computer Systems class, using Assembly 64-bit x86 exploring optimization, security & exceptional control flow
- Advanced application development experience using C++, C, Python and Java
- tsh Shell scripting

### DEVELOPMENT EXPERIENCE

#### Major League Baseball Database

Spring 2017

- Used C++11 to create a database of Baseball Players dating back to 1985
- Wrote code to implement a hash table and linked lists to create database of players
- Wrote code to extract and display player data from the database

#### Movie Tree

Spring 2017

- Used C++11 to create a tree of movies based on a given ranking
- Implemented a red/black tree
- Created function to find the longest path on the tree

#### Attack Lab

Fall 2016

- Used Assembly and C code to find security vulnerabilities in given program
- Exploited these vulnerabilities to learn about buffer overflow
- Gained an understanding in how to write more secure programs
- Utilized features from the compiler and operating system to write a less vulnerable program

#### Mandarin Chinese Quiz

Spring 2015

- Used Java to create a quiz to help learn Mandarin Chinese
- Created 10 levels with increasing difficulty
- Option to create a new level as users become more advanced

### LEADERSHIP

**Boulder Hockey Club**, Superior, Colorado

Fall 2016-Present

*Head Coach, 10U Competitive Program*

- Create a community of teamwork and communication that lead to great skill development and success
- Lead and motivate 9&10-year-old boys and girls to play team hockey using age-appropriate methodologies
- Direct practices of multiple teams implementing the American Development Model
- Collaborate with Boulder Hockey Club executive directors to develop season goals and bring about collective success

**Palmer High School**, Colorado Springs, CO

Fall 2014-Spring 2015

*Hockey Team Captain*

- Voted for by team and coaches as captain
- Organized a fundraiser for Concussion Awareness and raised over \$200 selling t-shirts
- Led and designed Captain's Practices for 26 players

### EXPERIENCE

**Sports Stable**, Boulder, CO

September 2017-Present

*Maintenance*

- Oversee maintenance on three ice rinks, three turf fields, batting cages, and a basketball gym
- Drive and maintain the Zambonis
- Responsible for effective communication with co-workers and customers to resolve problems and crises
- Maintain strong relationships with co-workers and management, as well as customers

**Picnic Basket Catering**, Colorado Springs, CO

Summer 2016

*Server*

- Set up, served and took down food and decorations at numerous events including weddings, Best of Colorado Springs Award dinner, and private parties
- Maintained strong relationships with co-workers, management and captains

### HONORS & AWARDS

- International Baccalaureate Diploma, Spring 2016
- University of Colorado Esteemed Scholars Scholarship Award
- National Honor Society Inductee

References available upon request.