

Matthew Strong

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Objective: To leverage my passion for computer science, I am seeking for a role as a tech (primarily) or marketing organizer for the HackCU team. This role will allow me to apply my leadership skills, effective communication, and technical problem-solving skills on the exciting and talented team.

EDUCATION

University of Colorado Boulder

Expected Graduation: May 2021

B.S. Computer Science, GPA: 4.00

BOLD Scholar, CU Esteemed Scholar

Selected Coursework: Physics 2: Electricity/Magnetism, Linear Algebra, Data/Discrete Structures

Legacy High School

Graduated May 2017

GPA: 4.26

Outstanding Physics Student, National Merit Scholar, Leadership Award for Model United Nations

ENGINEERING EXPERIENCE

Sustainable Building Systems (SBS) Laboratory Energy Efficiency Research Boulder, CO

1/18 – Present

Undergraduate Research Assistant

- Working with Yunyang Ye, Ph.D. student
- Developing code in Python and working heavily with Linux to understand energy efficient systems
- Implementing NREL (National Renewable Energy Laboratory) software such as OpenStudio to generate accurate simulations

CU Music CS Program, University of Colorado Boulder, CO

11/17 – Present

Student

- Created music program in C++ that implements the Beep function to create slightly random music in any key
- Generated a random musical theme that was implemented to create a brief musical excerpt
- Constructed algorithm to read in files with notes and lengths, and played them with the Beep function
- Currently working on developing a visual element to the program

Flatiron Solutions Boulder, CO

10/16 – 12/16

Intern

- Wrote code in HTML, CSS, and Javascript as one of the first high school interns there
- Interacted with other experienced web developers using Agile Methodologies
- Presented, to the Chief Technology Officer, a 20-minute presentation on user-interactive lists and web development

ADDITIONAL EXPERIENCE

Django Web Framework for CU's Basketball Courts Boulder, CO

12/17 – Present

Leader of Technology Operations

- Working with a friend to recruit other CS students to work on a web application using the Django Web Framework
- Leading a few other CS students on how to use Django with HTML/CSS/Javascript
- Currently focused on creating an effective court reservation system for CU's basketball courts

TECHNICAL SKILLS

- Working knowledge of: Python, HTML, CSS, Javascript, Linux, Bash.
- Strong experience with: C++, Word, Powerpoint, Mathematica, typing skills and knowledge of renewable energy technologies

LEADERSHIP

- Officer of Advertising/Media, Society of Asian Scientists and Engineers 10/17 – present
 - Organized meetings for members of club, expanded social network of club to 200+ likes
- Section Leader, Legacy High School Band 5/15 – 5/17
 - Led trumpet section to 2 state championships, top section award, and helped lead band to the National Concert Band Festival
 - Conducted rehearsals and developed strong relationships with the members of the section
- Cross of Christ Lutheran Church Youth Leader 8/13 - Present
 - Performed solos, duets, ensembles, and trios for the congregation at the church
- **Affiliations:** Member of SASE, BOLD Scholars, Cross of Christ Lutheran Church, CU Concert Band, Sustainable Buildings Laboratory Team (working under Professor Wangda Zuo)