

# KALIE CHANG

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## EDUCATION

### Colorado College (Colorado Springs, CO)

Bachelor of Arts in Computer Science, May 2026

Bachelor of Arts in Business, Economics, and Society, May 2026

Current GPA: 4.00

### ThunderRidge High School (Littleton, CO)

IB Diploma, May 2022

GPA: 4.35

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## RELEVANT COURSEWORK

**Fall 2022** – Foundations of Discrete Mathematics, Computer Science I

**Spring 2023** – Investigations in Engineering: Preparing for a Career in Space, Computer Science II, Probability and Statistical Modeling, Data Structures and Algorithms

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## RELEVANT PROJECTS

### Computer Science 1 – Java Fighting Game

NOVEMBER 2022

- Developed a fighting video game where the player must find their opponent on a grid-based map before they engage in a Street Fighter style fight through the Computer Science I course utilizing Java programming skills
- Researched and incorporated concepts beyond the course, such as GUI, threads, and collisions

### Investigations in Engineering: Preparing for a Career in Space – Wooden Satellite Pitch

JANUARY 2023

- Simulated a newspace company whose goal was to gain a contract from an established gas company, GreenGasCo, by pitching a satellite that can effectively monitor methane and CO2 production and fit within the client and company requirements
- Evaluated customer budget, risks, and core values to develop the concept of a wooden satellite as it fit within their value of being eco-friendly as well as provided them with good media and press, an aspect that we were praised for

### Computer Science 2 – Java Ledger Program

FEBRUARY 2023

- Developed a program that experiments with encryption in money transactions using the public and private key concept as well as servers hosted with Ngrok
- Utilized JSON data structures and collaborated with two other students to effectively produce and integrate the front and back end of both the server and client end

### Girls With Impact – Elderly Friendly App

FEBRUARY 2023

- Utilized the Design Thinking process and a business model canvas to pitch and create a prototype of an elderly friendly application that can help people in senior homes find activities and connect with others
- The application addresses a boredom issue within senior homes and has the ability to partner with multiple different companies and industries to offer a wide range of activities

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## RELEVANT EXPERIENCES

### Lockheed Martin – Incoming Business Analyst Intern

MAY 2023 - AUGUST 2023

- Supporting a team of Lockheed Business Analysts in customer communication as well as market/customer/competitive analysis
- Gained experience within the Lockheed Martin space and technology areas as well as financial modeling

### Colorado College Pathways to SCoRe Research Program – Bridge Scholar Student Research Assistant

JANUARY 2023 - DECEMBER 2023

- Collaborated with a Computer Science professor on machine learning research utilizing Python and Linear Algebra
- Committed to researching 18 hours a month and potentially presenting research at a machine learning conference

### Colorado College Coding Club – Co-Leader

AUGUST 2022 - PRESENT

- Engaged with the Colorado College computer science community to build support for those with similar backgrounds through events such as the Rocky Mountain Celebration of Women in Computing
- Expanded involvement within the community through attaining a leadership position within the club
- Work closely with Social Media Manager, Treasurer, and Co-Leader within the Board to ensure proper operation of the club

### **Colorado College Computer Science Department – Student Interviewer**

DECEMBER 2022

- Interviewed prospective Computer Science professors over breakfast with CS peers and paraprofessionals
- Attended the prospective professors' research presentations and student focused talks to better understand their goals

### **Girls With Impact Business and Leadership Academy – Member**

FEBRUARY 2023 - APRIL 2023

- Learned how to develop a business/non profit/venture alongside entrepreneurship skills, elevator pitches, and confidence building
- Delivered a pitch presentation for a venture competition at the conclusion of the course

### **Asian Student Union – First Year Representative**

FEBRUARY 2023 - PRESENT

- Helped Board Members plan club meetings as well as schoolwide and statewide events
- Supported the diversity, equity, and inclusion of Asian and Asian American students at Colorado College

### **Technology Student Association at ThunderRidge High School – Member**

AUGUST 2021 - MAY 2022

- Utilized problem solving and technical skills to come up with an eco-friendly solution for cyanobacteria and persuade the board of judges that we had the best solution, which earned my team 2nd Place in the Districts competition
- Effectively learned analytical, extemporaneous speaking, and mechanical skills in order to compete in a variety of events in the Districts and State competition

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## **ADDITIONAL EXPERIENCES**

### **Denver Animal Shelter – Volunteer Adoption Guide, Volunteer Translator**

JULY 2021 - MAY 2022

- Facilitated an individual consultation with potential adoptees and approved the adoption of over 20 animals
- Utilized detail orientation to translate shelter documents from English to Spanish

### **ThunderRidge Charity Art Auction – Co-Planner/Manager**

MAY 2021 - MAY 2022

- Established a school event to raise over \$300 for the non-profit Think 360 Arts
- Spearheaded a collaboration with my high school community to raise over 50 pieces of artwork for the event

### **Colorado College Figure Skating Team –Athlete**

AUGUST 2022 - PRESENT

- Started figure skating in August 2022 with no ice experience and rapidly acquired/improved new skills through consistent practice during team ice time as well as training outside of team practice
- Represented Colorado College in a competition against the Pacific Coast Division schools at the University of California, San Diego for High Beginner and Low Team maneuvers in March

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## **ADDITIONAL SKILLS**

English Fluent, Spanish Advanced, Mandarin Chinese Fluent

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## **RELEVANT SKILLS**

Python, HTML, CSS, Java, Microsoft Office Suite, Microsoft Excel, Powerpoint, Pivot, Visual Basic Programming, WordPress, Linux, Linux Soft Links, Get with Github, Adobe Suite, PyCharm, Atom, Babel, XCode, Object Oriented Programming, Sketch, Gimp, JavaScript, Unix, Terminal, Command Line, C Shell, Shell, Markdown, Agile Development, Waterfall Development, SCRUM, Systems Engineering, IntelliJ, JSON Data Structures, Ngrok

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