

HARRIE HA

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EDUCATION

University of Colorado Boulder, Boulder, CO

August 2024 - Present

Graduating May 2028

Fairview High School, Boulder, CO

August 2020 - May 2024

Graduated May 2024

RESEARCH EXPERIENCE

Prof. Tom Yeh's Research Group, CS Department, University of Colorado Boulder, CO August 2023-Present
Intern *Boulder, Colorado*

- The Center for the Brain, AI, and Child(BAIC) is affiliated with the University of Colorado Boulder and investigates the intersection and applications. I was involved with the project involving childhood education and ChatGPT, exploring how ChatGPT, a virtual avatar program, and devices like FNRS (Functional Near-Infrared Spectroscopy) could be used to measure brain waves while engaging with AI. As an intern, I studied machine learning to build binary classifiers with logistic regression and naïve bayes initially. Using these classifiers, I trained them on amazon review and tweet datasets and conducted tasks like sentiment analysis.

LIONS Research Group, Electrical Computer Engineering, Carnegie Mellon University June 2023 - July 2023
Summer Research Intern *Pittsburgh, PA*

- Critical access hospitals (CAHs) in rural areas face unique challenges due to their service to older and sicker communities, often struggling with financial sustainability, which may result in closures. Factors like longer travel times, high unemployment, underinsurance, poverty, and minority populations in the vicinity contribute to these closures. As 60 million Americans live in rural areas, CAH closures result in increased travel distances for essential healthcare services, often with reduced service availability. In this project, I utilized data from hospitals in the U.S. and articles on rural hospital readiness for COVID-19 to identify regions lacking CAH access and understand the underlying reasons. I used Python, along with the geopandas and matplotlib libraries, for data analysis and visualization in the final report.

LEADERSHIP/SERVICE

Fairview Band

Section Leader/Member of Fairview Wind Ensemble and Fairview Marching Band

September 2020 - May 2024

Boulder, CO

- Competed at State and Regionals - obtained Excellent and Superior rating
- Competed at multiple competitions and ranked 4th in 5A Colorado Band Association (CBA) State competition
- Section leader for the 2023-2024 year: (i) organized sectionals; (ii) assisted section members with music learning and memorization; (iii) coordinated with other members of leadership for events
- Practiced twice a week for 4 hours and attended 8 hour practices on weekend
- Attended a yearly 2 week training camp every day from 8-4
- Collaborated with other members in music and coordination

Boulder Korean School

Childcare and Korean Education Assistant

November 2021 - January 2024

Boulder, CO

- Assisted teachers with setting up the classrooms and cleaning up.
- Taught Korean to age 4 - 7 year old children; Supervised children inside and outside of class.

- Interpreted for struggling students from Korean to English.

Bolder Boulder

Volunteer

May 2023

Boulder, CO

- Helped a yearly Bolder Boulder 10K marathon race with more than 40,000 participants and 100,000 spectators.

EXTRACURRICULAR ACTIVITIES

Fairview Speech & Debate Team

Speaker & Debater

September 2022 - February 2024

Boulder, CO

- Attended various tournaments year round from September to March 2023
- Collaborated with a partner in debate tournaments

Spanish National Honor Society

Member

August 2022 - May 2024

- Communicate with students living in Argentina digitally and through letters
- Assisted students struggling with Spanish and volunteered for club

Fairview Girls Golf Team

Varsity Golfer

April 2021 - May 2024

Boulder, CO

- Varsity golfer starting freshman year; Competed at multiple tournaments year round

Front Range Barracuda Swim Team

Competitive Swimmer

August 2013 - May 2021

Thornton, CO

- Competed year round, including in the summer
- Obtained lifeguard certification, April 26, 2021 – April 29, 2021.

Louisville Taekwondo Family Center

Second Degree Black Belt

August 2013 - August 2021

Louisville, CO

- Attended year round; Performed forms, nunchucks, sword, and double sticks at exhibitions and competitions
- Assisted lower belts and younger attendants
- Passed First and Second Degree Black Belt Tests

COMPUTING CLASSES

Programming for Everybody (Getting Started with Python)

Coursera Certificate, University of Michigan

August 2022 - Present

Introduction to Python Programming

NextEPC LLC

August 2020 - May 2021

IB/AP Java Computer Science

Fairview High School

August 2022 - Present

SKILLS

Computer Languages

Python on Jupyter Notebook, HTML, Java (beginner)

Productivity Software

Latex, Google Suite, Microsoft Office (Word, PowerPoint, Excel, Outlook)

Languages

Korean (Fluent), Spanish (Intermediate)

REFERENCES

Dr. Carlee Joe-Wong

Professor in the Electrical Computer Engineering at Carnegie Mellon University

cjoewong@andrew.cmu.edu

Sunok Sun

Boulder Korean School Principal

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Mickey Kim

Louisville Taekwondo Family Center Instructor

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John Zerwin

Fairview Girls and Boys Golf Team Coach

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