## EDUCATION

University of Colorado Boulder Boulder, CO

B.S.’s in Computer Science and Applied Mathematics May 2022

GPA: 3.7, Dean’s List

## EXPERIENCE

Intern, University of Colorado Boulder; Build a Better Book November 2017-Present

* Designed and manufactured 3D tactile books for blind children all over the globe.
* Used a combination of Solidworks, Inkspace, and CraftML to design pages, shapes, and textures.
* Manufactured children’s books using 3D printers, Laser cutters, and Braille printers.
* Mentored new hires on efficient printing/designing techniques and helped maintain the tools in the lab.

Intern, Charter Communications June 2018 – Aug. 2018

* Automated cataloging tasks to remove duplicates across different versions of datasheets using python and regular expressions.
* Added functions to Charter’s data center shipment catalog website with Angular/JavaScript such that all wanted information could be saved to a local machine in an excel sheet and automatically created a JIRA ticket via a rest API call.
* Attended lectures and tours with data center management team in order to learn/observe.
* Made the occasional coffee and/or donut run for the data center team.

## LEADERSHIP EXPERIENCE

Community Assistant, University of Colorado Boulder Aug. 2018 - Present

* Ran the front desk in various resident halls across campus.
* Provided assistance to any resident whether it be help getting around campus, getting locked out of their room, or helping with homework.
* Hosted community bonding events such that all residence felt included and encouraged to help others.
* Ensured resident safety by being the first line of contact with anyone who enters the halls and observing suspicious behavior.

Member, SHPE/MAES Aug. 2017 - Present

* Attend biweekly meetings which focus on the success of Latinos in engineering.

Boy Scouts of America Aug. 2013 - May 2017

* Achieved the rank of Eagle Scout
* Held numerous leadership positions including Senior Patrol Leader and Patrol leader

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## ADDITIONAL EXPERIENCE

Backliner, Garbanzo Mediterranean Grill May 2017 – Aug. 2017

* Cleaned back of the house so that there was a sanitary environment for food handling and closed the store 3 times a week.
* Cooked and served meets to for customers

## SKILLS

Computer:

* Proficient with Python, C++, JavaScript, AutoCAD, Unix/Linux, Bash, Raspberry Pi, and Arduino
* Experience with HTML, CSS, Docker, Virtual Machine, Vagrant, Angular, and Kubernetes

Manufacturing:

* Able to use 3D prints, Laser cutters, CNC machines, Saws and Drills, and Sewing machines

Language:

* Beginning Spanish

## PROJECTS

Raspberry Pi Automation:

* “Listens” for direct messages on a slack channel containing specific instructions.
* Currently opens my door, controls my lights, and manages my audio system.
* Future plans include integrating google home, security cameras, and magic mirror integration

SARA bot:

* Modeled a search and rescue assistant bot using an Arduino board, ultrasonic wave sensors, motors, and servos.
* Able to move rocks away from disaster area and navigate through nonlinear routes.

Object Recognition with Python:

* Able to use python’s openCV2 module in order to recognize specific shapes and colors.
* Hope to use in conjunction with tensor flow in order to teach a raspberry pi sign language.