SOPHIE FOSTER

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602 PARK TERRACE COLORADO SPRINGS, CO, 80903

ENGINEERING EXPERIENCE

LOCKHEED MARTIN INTERNSHIP | 6/2017 - PRESENT

- Summer 2017: Designed and created internal Lockheed staffing site using HTML, CSS, JavaScript, JQuery, Bootstrap, and limited PHP
- Summer 2018: Implemented functionality for missile defense user interface using Java and Java Swing, Maven, ClearCase and Eclipse

LOCKHEED MARTIN INTERN PROJECT | 6/2017 - PRESENT

- Summer 2017: Programmed Nerf turret using Raspberry Pi to play life-sized Battleship; created GUI
- Summer 2018: Programmed Nerf turret and camera using Arduino to hit given targets of varied colors and shapes using OpenCV image recognition and distinguish cats and dogs using TensorFlow and Keras machine learning algorithms; created GUI

UNIVERSITY OF COLORADO | 8/2016- PRESENT

- Created rowing machine that produced energy on engineering team
- Designed potential banner campaign for Pearl Street Mall
- Designed application to monitor dining hall wait times
- Designed social media application for students to eat with friends

LEADERSHIP EXPERIENCE

UNIVERSITY OF COLORADO STUDENT AMBASSADORS | 2/2017 - PRESENT

- Accepted into competitive ambassador program to give prospective students campus tours and hold events for incoming students

UNIVERSITY OF COLORADO ENGINEERING COUNCIL | 8/2016 - PRESENT | DIRECTOR OF STUDENT ORGANIZATIONS

- Serve as liaison between engineering clubs and societies at CU, working to provide grants and opportunities
- Represent CU Engineering students to entire student body
- Plan events for engineering students

ENGINEERING LEADERSHIP PROGRAM | 8/2016 - PRESENT | EARN-LEARN APPRENTICE | 9/2017 - 5/2018

- Learned effective group work, professional leadership and ethical engineering
- Hired to redesign mentor program entailing research and brainstorming, event planning and platform merging

EDUCATION

UNIVERSITY OF COLORADO BOULDER | 2016 - 2019 | COLLEGE OF ENGINEERING

B.S. Technology, Arts and Media
Computer Science Minor
Engineering Leadership Certificate
Cumulative GPA: 3.6

PROGRAMMING SKILLS

- C++ / C
- Java / Swing
- Python / Flask
- HTML
- CSS/SCSS
- Jekyll
- Rhino
- JavaScript
- JQuery
- Bootstrap
- Arduino
- Raspberry Pi
- Git/GitHub
- Rhino
- Fluid UI
- InVision
- Maven
- ClearCase
- Eclipse
- Jira

TECHNICAL SKILLS/QUALIFICATIONS

- Agile Scrum Development
- Adobe Suite Programs
- Microsoft Programs
- Jupyter Notebooks
- Tableau Software
- DoD Secret Clearance
- 3D Printing and Laser Cutting

STUDENT ORGANIZATIONS

- Global Engineering Residential Academic Program
  - Teaching assistant for IT course
- Young Life
- Council on International Educational Exchange
  - Studied in Berlin and London (fall 2018)

CURRENT VOLUNTEER WORK

- Young Life: Wyld Life Team Leader
  - Spend time with middle school girls to walk with them in hardships and celebrate in successes (will serve until May 2020)