Sofia Gonzalez

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EDUCATION

Bachelor of Science **Computer Science** University of Maryland, College Park May 2021

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, Matlab
- **Web Frameworks and Languages:** Flask, Django, React - JavaScript, HTML, CSS
- **Tools:** Git, Apache Subversion
- **Interests:** Simulations, Computer Graphics, Compilers, Web and Application Development

GITHUB PROJECTS

QUEST Project Dashboard **January 2020- May 2020**

- Spring 2020 Capstone Project for the QUEST program at UMD
- Created a new unified management system and provide a dashboard to display projects and allow administrators to manipulate data - **Technologies: Flask-RESTful, React, MySQL**

SimTool **May 2020- Current**

- SimTool is an open-source web app that allows anyone to explore discrete event simulation without needing to understand programming - **Technologies: Flask, React, Konva.js**

RESEARCH EXPERIENCE

Undergraduate Research Assistant **June 2020- Current**
Software Engineering at Maryland, University of Maryland College Park

- Worked with a team of undergraduate researches to develop a simulation software to allow anyone to explore discrete event simulation

PROFESSIONAL EXPERIENCE

AI Research Intern **May 2019- December 2019**
Sheikh Zayed Institute for Pediatric Surgical Innovation - Washington, DC

- **Technologies: Python, Matlab, TensorFlow, Excel**
- Responsibilities included automating data organization, image processing and neural network model creation. Contributed to multiple research projects and ran experiments

Data Science Intern **May 2018- June 2019**
Blend**360 (**Previously C**2**G Partners**)** - Colombia, MD

- **Technologies: R, SQL, Visual Basic**
- Developed a program to parse a statistical model and generate SQL code to score a data set on a SQL server

Teaching Assistant **August 2019- December 2019**
University of Maryland Business School - College Park, MD

- **Technologies: PHP, HTML, SQL**
- Teaching assistant for Application Development for the Web – class focused on PHP, HTML, CSS and web development concepts such as database management

Tutor and Camp Counselor **September 2018 – May 2019**
Coder Kids, Inc - McLean, VA

- Educated students ages K-12 on specific coding languages (Scratch, Java, HTML, etc.)
- Works one-on-one to teach harder concepts such as website design and implementation

ACOMPLISHMENTS and ADDITIONAL INFORMATION

- Accepted into the 2020 cohort of Code2040
- Interests: Guitar, Video Games, Reading and Literature. Played Ruby for 2 years