

# SARAH N. MAURICIO

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## OBJECTIVE

Self-driven and innovative student with a passion to learn the ins and outs of Front-End Development

## EDUCATION

University of California, Los Angeles

Expected Graduation: June 2023

B.S. Degree in Computer Science and Engineering

GPA: 4.0

**Courses:** Data Structures and Algorithms; Differential Equations; Discrete Structures; Intro to Computer Organization; Intro to Computer Science; Linear Algebra; Logic Design of Digital Systems; Physics

## SKILLS

Java (proficient)      C++ (proficient)      HTML (proficient)      CSS (proficient)      Bootstrap (familiar)

Python (familiar)      JavaScript (familiar)      React (familiar)

## EXPERIENCE

UCLA SOLES Lunabotics Team

Sept 2019 - Present

- Building a rover capable of excavating replica lunar surface and coding its movements using OpenCV & Arduino
- Learned how to program a FPGA microcontroller using Quartus Prime
- *Systems Lead* : Orchestrate and lead workshops to draft final report and ensure it is clear and concise

TechKnowHow Lead Instructor

June 2020 - Present

- Teaching 20 students (ages 8-15) the fundamentals of Python through lectures and code walkthroughs while encouraging good debugging practices

UCLA SOLES Dev Team

July 2020 - Present

- Designing and developing responsive web app using React and Firebase that ensures user experience
- Coordinated with the SOLES Board to acquire more sponsors and increase club membership

UCLA AI Arena Research Team

March 2020 - June 2020

- Applied machine learning and artificial intelligence concepts, in context of developing fully autonomous team of agents to face off in a tournament setting
- Developed minimax, expectimax, and reward functions in PacMan that beat the computer with 100% accuracy

## ACTIVITIES / LEADERSHIP

Center for Excellence in Engineering and Diversity (CEED)

2019 - Present

Society of Latino Engineers and Scientists (SOLES)

Sept 2019 - Present

- *UCLA SOLES Regional Leadership Development Conference (RLDC) Marketing Chair*

Society of Women Engineers (SWE)

Sept 2019 - Present

Boingo tour, agile/scrum teamwork challenge project

Sept 2019

## AWARDS / CONFERENCES

Rewriting the Code Fellowship Program

2020

Hispanic Scholarship Fund National Leadership Conference

July 2020

- One of 100 selected to attend out of all rising sophomore HSF Scholars

Grace Hopper Celebration Scholar

2020

Hispanic Scholarship Fund Scholar

2019 - Present

Helix Charter High School Valedictorian

2019

Girl Scout Gold Award Recipient

2018

- Educated teenage athletes about the causes, symptoms, and diagnosis procedure of osteosarcoma