

Anshita Saini

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WORK AND RESEARCH EXPERIENCE

GOOGLE

Computer Science Summer Institute | Summer 2021

- Participating in a 4-week intensive computer science summer program for high-achieving students
- Completing introductory project-based **JavaScript / Firebase** curriculum taught by Google engineers
- Configuring 20+ individual coding projects in **JavaScript**
- Delivering collaborative final project presentation with live demonstration to Google employees and community leaders

LOCKHEED MARTIN

Intern | September 2020 - July 2021

- Used **Python, Docker, and GitLab** to analyze and manage Big Data to find faults on laser systems
- Applied **Jira** for project management for 30+ person team
- Built **Beautiful Soup** web scraper to generate lead times for 1000+ parts reducing manual work by 60x
- Further details may not be disclosed due to NDA and ITAR

UNIVERSITY OF WASHINGTON - UBIQUITOUS COMPUTING LAB

Research Intern | June 2019 - June 2021

- Applied **Python** signal processing and computer vision (**OpenCV**) to extract pulse of user from facial videos for stroke risk detection
- Wrote **MATLAB** script for motion correction on facial videos
- Coded sonar sensing data collection web app using **PHP** and advanced **HTML/JavaScript**
- Developed **Python** signal processing techniques to count repetitions of upper-body activities through a phone's microphone
- Applied Python deep learning (Keras) to classify over 10 types of physical activities with 2D CNN
- Additional details: [Research Report](#), [Poster](#)

SUMMER SCIENCE PROGRAM (AFFILIATES CALTECH, MIT)

Astrophysics Researcher | 2020

- 1 of 36 students selected internationally
- Operated a research-grade telescope remotely to take images of asteroid
- Developed **Python**-based software to calculate its 6 orbital elements - [Research Report](#)

SKILLS

- Programming:
 - Python
 - Javascript
 - ReactNative
 - PHP, HTML/CSS
 - Java
 - LaTeX
 - MATLAB
 - Deep Learning
 - GitHub/GitLab
 - Unity
- Engineering:
 - Microsoft Office
 - Fusion 360
 - AutoCAD
- Electronics:
 - Fritzing
 - Arduino

CHANGEMAKER

Vice President of nonprofit She Codes Art | SEP 2014 - PRESENT

- Impacted 1000+ students to reduce gender gap in STEM (shecodesart.org)
- Teach/organize 60+ weekly coding workshops and full-day conferences
- Partnered with 14+ organizations
- Influence teens to engage with computing at Bill and Melinda Gates Teen Action Fair

Founder and President of nonprofit Code4Care

- Fundraising for COVID-19 efforts by virtually teaching coding
- Raised \$2000, taught 20+ webinars
- Impacted 300+ students in 6 continents (code4care.weebly.com)

EDUCATION HISTORY

UNIVERSITY OF TEXAS AT AUSTIN

Turing Scholar, 2021-2025

4-Year BS CS/MS CS Integrated Program

INTERLAKE HIGH SCHOOL

Gifted Senior, 2017-2021, 4.0 GPA

- Awarded International Baccalaureate Diploma (accelerated program)
- President of Interlake Rocketry Club (32 members)
- Founder and President of Technovation Club (30 girls)
- President of Future Problem Solvers Club (30 members)
- National Merit Scholar/AP Scholar
- EdX Course - Microsoft: Principles of Machine Learning: Python

AWARDS AND HONORS

2020-2021

- Recognized out of nearly 100,000 applicants as [Coca-Cola Scholar](#) for academic achievement, outstanding leadership, and community impact (2021)
- Recognized as 1 of 28 [National InspirAsian Scholars](#) (2021)
- NCWIT Aspirations in Computing Washington Award Winner (2020)
- Top 5 Team for American Rocketry Challenge Presentation (2020)

2019-2020

- International 3rd place Winner at Future Problem Solvers (2019)
- International Semifinalist for Technovation, 1st place in region (2019)