

# Krish Katariya - Georgia Tech '26 - US Citizen

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## WORK EXPERIENCE

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### Data Signal Processing Researcher and Intern

June 2022 - July 2023

*Akbari Lab at University of California, Irvine*

*Irvine, CA*

- Worked with the data signal processing team by using Python, Matlab, and signal processing techniques to analyze cardiac arrest effect on spreading depolarization
- Trained on Matlab techniques integral to data signal processing and data analysis of heart and brain data

### Cubesat STEM

January 2019 - July 2023

*Team Leader*

*Irvine, CA*

- Team leader for the power team of Cubesat
- Worked on creating the power budget and launch angles for the Irvine 02 mini-satellite when it is in space, as well as the software that controls the power system of the satellite
- Utilized Rust and Python to manage satellite software

### Training Course Developer - Intern

July 2021 - December 2021

*Alexander Technical Institute*

*Santa Ana, CA*

- Built interactive chemistry training courses using React and Javascript
- Did training course requirement collection and analysis & evaluation of commercial training platforms
- Worked with chemists to build training content, managed content using Vimeo platform; Courses generated ~9K profit

### Junior Code Coach

June 2022 - October 2022

*theIrvineCoderSchool*

*Irvine, CA*

- Part time job teaching younger kids scratch and python with interactive, fun, project based lessons
- Specifically taught topics such as variables, loops, if/else statements, and other topics up to object oriented programming.

## Projects

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### Project IRIS

- Worked on science Fair Project (first place winner in Orange County Science and Engineering Fair) which uses machine learning techniques such as semantic segmentation in order to analyze the eye movement patterns of different subject groups in order to determine what specific variables they need to work on
- Main variables analyzed were decision time, distraction observation, sensitivity, etc in order to create a safer driving society

### Medixly

*Chief Technical Officer of Software Development*

- Led a team of software developers in creating an application to detect melanoma cancer using machine learning
- We used neural networks in the back-end to detect the ABCD's of melanoma referencing thousands of melanoma cancer images and their metadata from the ISIC database to accurately track information

## Awards

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Human Research Award from the International Research Institute

USA Computing Olympiad Silver

Orange County 2022 First Place Science Fair Award

Cyberpatriot (AirForce Association) Platinum Semi-Finalist

## EDUCATION

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**Georgia Institute of Technology | Atlanta** | *Bachelors in Computer Science* GPA: 4.0

**Important classes taken/taking:** Computer Organization and Programming, Data Structures and Algorithms, Objects and Design, Intro to Object Oriented Programming, Discrete Mathematisc

## Skills

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**Programming:** Python, AWS, Javascript, C++, Java, Tensorflow

**Soft skills:** Communication, Teamwork, Quick Learning