KRISH KATARIYA

Irvine, California, United States Citizen - 92620

krishkatariya@outlook.com ◆ (+1) 949 378 0266 ◆ krishkat.dev ◆ linkedin.com/in/krishkatariya/ ◆ github.com/katamyra

EDUCATION

Georgia Institute of Technology **Atlanta, GA**

Bachelors in Computer Science May 2025

- **Honors**: 4.0 / 4.0 GPA
- **Courses**: Data Structures and Algorithms, Computer Architecture, Objects and Design, Object Oriented Programming, Discrete Math, Linear Algebra

WORK EXPERIENCE

Data Signal Processing Research and Intern **Irvine, California**

Akbari Lab At University of Irvine Jun 2022 – Jul 2023

- 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 - NASA **Irvine, California**

Team Leader Jan 2019 – Jan 2032

- 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

Web Development Software Development Internship **Santa Ana, California**

Training Course Developer Jun 2022 – Oct 2022

- 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

PROJECTS

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
- Utilizes Mask R-CNN ML model to semantically segment pixels into their respective objects

Medixly

- Led a team of software developers in creating an application to detect melanoma cancer using machine learning, using React Native Frontend
- 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

HONORS & AWARDS

Human Research Award from the International Research Institute of North Carolina **Orange County, California**

USACO Silver

SKILLS, LANGUAGES, INTERESTS

- **General Programming Languages**: C++, Javascript, Typescript, Python, Rust
- **Web Development**: React, Next.js, Tailwind CSS, Node.js
- **Tools**: Git, Docker, Visual Studio Code
- **ML & Data Analytics**: Tensorflow, Scikit Learn, Jupyter Notebook, Numpy, Pandas
- **Soft Skills**: Communication, Fast Learner, Cooperative