**Sarinda Samarasinghe**

**8651 Pebble Creek Ln, Jacksonville, FL 32256, (904) 803-1587,** [**sarinda.samarasinghe@ucf.edu**](mailto:sarinda.samarasinghe@ucf.edu)

**Education:**

# University of Central Florida 2021-Present

Ph.D. in Computer Science UCF Center for Research in Computer Vision

Advisor: Dr. Mubarak Shah

# University of Central Florida 2017-2021

Bachelor of Science in Computer Science (With Honors) Bachelor of Science in Mathematics (With Honors)

**Awards & Honors:**

UCF National Honor Society in Mathematics Member UCF President’s Honor Roll

UCF Provost Scholarship recipient 2017 – 2021 UCF Dean’s List

**Skills Summary:**

Programming Languages: Python, Java, C/C++ , R , ROS

Machine Learning: Pytorch/TensorFlow/Keras

Operating Systems: Windows, Linux

**Research Papers:**

* **Sarinda Samarasinghe**, Mamshad Nayeem Rizve, Navid Kardan, Mubarak Shah; CDFSL-V: Cross-Domain Few-Shot Learning for Videos; International Conference on Computer Vision **(ICCV 2023)**

**Funding Projects:**

**Hidden Activity Signal and Trajectory Anomaly Characterization (HAYSTAC) by IARPA** 4/2023 – Present

* Worked on anomalous trajectory insertion and anomalous trajectory detection.

**Biometric Recognition and Identification at Altitude and Range (BRIAR) by IARPA** 5/2022 – 8/2023

* Worked on cross-domain few-shot learning for training on ground camera videos and testing on drone videos. Also worked on feature fusion for multiple retrieval methods.

**Other Projects:**

**Fortuna V2,** https://fortunacombat.com/

* Continuation of a Web-based, Programmable Tank Strategy Game
* Teaches beginners programming skills with a Scratch-like coding language

# QOurs Image Detection

* A drawable QR code alternative that consists of basic shapes
* Image detection converts a photo of up to 16 shapes on a grid into a hash code for link storage

**Relevant Experience:**

# Bioinformatics Research 3/2020 – 12/2020

* Studied and implement algorithms to analyze and identify various species in genetic sequence samples.
* Optimize algorithms to maximize speed and minimize RAM usage.

# UCF Programming Team Member 9/2019 – 9/2020

• Studied various programming algorithms and participate in the International Collegiate Programming Contest

(Mercer Spring Programming Contest) as a representative of UCF o Team UCF Requiem placed 2nd in the 2020 Senior Division (Highest placement of the UCF teams)

# Real-Time & Intelligent Systems Lab Autonomous Mobile Robots 12/2018 – 5/2019

* Researched path planning methods to steer an autonomous 1/10th scale Formula 1 race car
* Utilized ROS, Gazebo, and Turtlebot3 to implement and test path planning algorithms

**Additional Experience:**

**Math Tutor** 8/2014 – Present

* Freelance tutor students ranging from middle school students to college students