

# RISHAB SESHADRI

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## EDUCATION:

**UNIVERSITY OF GEORGIA, FRANKLIN COLLEGE OF ARTS & SCIENCES**

**AUGUST 2022 – MAY 2026**

*B.S. IN COMPUTER SCIENCE & B.S. IN APPLIED MATHEMATICS*

- Focus in Robotics
- GPA: 3.96 / 4.00

## TECHNICAL SKILLS:

**LANGUAGES:** *Java, Python, JavaScript, C*

**OPERATING SYSTEMS:** *Windows, MacOS, Unix*

**CONCEPTS:** *API Development, Cloud Database Storage, Protocols/Device Communications, ROS2 (in progress)*

## WORK EXPERIENCE:

**CHIEF TECHNOLOGY OFFICER, KAVI MEDIA**

**APRIL 2023 – PRESENT**

- Access, interact with, and convert the Ampache 5 Python API to a more robust and relevant JavaScript API
- Develop user data storage using MariaDB along with an ExpressJS API for global access to user settings
- Design the backend software and data handlers for a South India-focused audio production and streaming application

**AI/ML SOFTWARE ENGINEERING INTERN, NCR VOYIX**

**MAY 2024 – AUGUST 2024**

- Integrate a machine-learning based sales forecasting model into an existing product's frontend
- Implement data validation methods for data pre-processing prior to model training, alerting engineers when data drift occurs
- Work with the AI/ML team to improve the accuracy of existing predictions using a variety of ML-focused routes

**LEAD BACKEND DEVELOPER INTERN, IVUE**

**MAY 2023 – AUGUST 2023**

- Program in JavaScript to read, interpret, and write packets to iVue drones using a flight controller
- Lead the group of backend developer interns to build the Worlds iVue drone control software
- Work with front-end development team to connect the packet interactions with the visual half of the application

## PROJECT EXPERIENCE:

**ARCHR**

**FEBRUARY 2024 – PRESENT**

- A proof-of-concept project that uses an MQTT broker hosted on an ATM to provide an extra layer of security, only allowing a user to withdraw money if their phone is within the Bluetooth range and alerting them if not

**GRISELDA MIXBOARD**

**AUGUST 2022 – PRESENT**

- JavaFX based application that allows a user to record and upload audio clips, connecting each clip with a key on the keyboard to allow for real-time playing, beat mixing, and more

## EXTRA CURRICULAR EXPERIENCE:

**UNDERGRADUATE RESEARCHER, HEALXR**

**AUGUST 2022 – PRESENT**

- Work with Dr. Kyle Johnsen and other members of the UGA Virtual Experiences Lab to build a VR platform that allows amputee patients with phantom limb pain to visualize their missing limb, ease their pain, and go through therapy
- Build a Python program to convert images of an individual's hand into a 3D model
- Previously, use BLE to interpret and denoise EMG signals, perform FFT algorithms to create a smooth frequency chart in Python, and use MQTT to send data to Unity and build a physically-controllable virtual arm

**TEAM LEAD & PROGRAMMER, UGA ROBOTICS: IEEE**

**AUGUST 2022 - PRESENT**

- Build and program a robot to compete in the IEEE Southeastern Conference
- Implement pathfinding algorithms and object detection for field elements using OpenCV in Python and a Zed stereovision camera
- Plan and 3D model robot, research documentation, and process motor input with an Ubuntu system using a Raspberry Pi 4

**PROGRAMMER, UGA ROBOTICS: ROBODAWG**

**AUGUST 2023 – PRESENT**

- Model, build, and program a robotic dog inspired by Boston Dynamics' Spot, tasked with security and facial recognition of club & team members
- Program the CV side of the robot, using OpenCV to identify members in the lab using their faces, as well as provide environmental data using LiDAR sensors for pathfinding algorithms