

## Rahul Medicharla

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### TECHNICAL SKILLS

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- **GitHub:** [github.com/rahulmedicharla](https://github.com/rahulmedicharla)
- Portfolio: [rahul-medicharla-portfolio.web.app](http://rahul-medicharla-portfolio.web.app)
- Experience building dynamic applications with GCP, Azure, React, Ruby, .NET, SQL, and Docker
- Audio and visual recognition using Python, OpenCV, Speech Recognition
- Creating, training, and testing 3D object detection ML models and custom Neural Networks
- Experience and familiarity in fundamental languages such as Java, C, and Python

### EDUCATION

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**Ohio State University**, Columbus OH

*Bachelors of Science* / Computer Science Engineering

Focus: Software Development/Artificial Intelligence

**Graduation:** May 2025

**GPA:** 3.68/4.0

### PROFESSIONAL EXPERIENCE

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**Software Engineer Intern** at Willow Tree Apps

May 2023 - current

- Currently interning at a software application company on a cross functional team to deploy mobile and web applications to clients.
- Primarily engaging in back-end development with C#, .NET framework, and Azure cloud services
- Developing a client facing chatbot that utilizes custom search and indexing algorithms coupled with generative AI.

**3D Perception Team Member** of Buckeye Autodrive

January 2023- current

- Four-year competition to develop a Stage IV automated vehicle to traverse urban roads.
- Tested and visualized a 3D object tracking model to track vehicles and pedestrians.
- Created and integrated a 3D dynamics module to get real time speed of objects into pipeline.

**Application Developer** at TOYMAKERS

June 2022 - August 2022

- Developed React Native application to make event organization with friends simple.
- Shares real-time location of your friends and current events onto a map using Google Cloud Platform's real time database and Google Places API.
- Enables meeting new people through a unique friends of friends RSVP mechanism for events.

### PERSONAL PROJECTS

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**evolate**

June 2023

- Created a custom data structure that can seamlessly switch between different implementations.
- Utilized a custom Neural Network to identify when to switch data implementations based on use case to maximize efficiency and run time.

**mood.ai**

March 2023

- Developed a program to capture the essence of a memory stored in a video as AI generated art.
- Implemented numerous audio and video machine learning models to inference data about a video/audio clip.

- Utilized OpenAI's ChatGPT and DALLE-2 API's to convert data into art

**Audio Studio - 5<sup>th</sup> place project out of 1,000 participants at annual Hackathon** October 2022

- Developed a custom speech to code editor to make programming more accessible.
- Implemented speech to text with Google's Speech Recognition API
- Mapped conversational text to code logic and created a nested recursive representation with CFG's.
- Output text onto custom IDE that runs functional Python code through voice commands.

## **AFFILIATIONS**

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- **Co-Founder/Treasurer** of The Cooking Club August 2022 – current
- **Treasurer** of the Collaborative Programming Club November 2022 – May 2023