

Sidharth Rao

Freshman at Cornell University, College of Engineering

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Sidharth Rao is a Freshman at Cornell Engineering. He is primarily interested in Computer Science, Robotics, Cybersecurity, and decentralization. Sidharth also volunteers at Robotics and Beyond, teaching students Python, AI, and Edge Computing.

WORK EXPERIENCE

Robotics Engineering Intern - Cognite

June 2022 – August 2022

Austin, Texas, United States

Cognite is a global leader in industrial software driving the digital transformation of asset-heavy industries around the world using its industrial DataOps platform, Cognite Data Fusion. It is currently working with oil and gas companies to create a fully automated site inspection system using robots like Boston Dynamics Spot.

- Created an acoustic gas leak detection system for Spot and integrated it with Cognite's data and robotics software platform. Demoed the product to the client team successfully.

Software Engineering Intern - Rovicare

June 2021 – Jan 2022

Remote

Rovicare is a cloud-based medical software simplifying care transition for patients, caregivers, and providers.

- Created a containerized API to allow fast, automatic extraction and transferring of data from scanned medical forms into databases using OCR. This reduced the processing time of medical data intake of patients by over 90%.
 - Used Python, Flask, GCP Vision API, GCS, Docker

AI and Robotics Instructor, Course Creator - Robotics and Beyond

January 2021 – Present

New Milford, Connecticut, United States

Robotics and Beyond is a non-profit K-12 organization focused on encouraging and supporting the next generation of technologists, scientists, and creative thinkers.

- Taught Elementary school students basic Python skills.
- Developed and taught a course in AI with Edge Computers and Tensorflow Lite to High School students.
- Taught a course in Machine Learning, and currently developing a robotics course.

EDUCATION

Cornell University, College of Engineering

August 2023 - May 2027

Ithaca, New York, United States

Choate Rosemary Hall, High School Diploma

September 2019 – May 2023

Wallingford, Connecticut, United States

- Lead Programmer and Lead Technician in the Advanced Robotics Concentration (ARC, Choate's Robotics Signature Program), and Choate's FRC team, the Wired Boars 7407.
- President of the Choate Aerospace Association
- JV Cross Country
- Concert Orchestra (Cello)

COMPETITIONS, AWARDS, AND SCORES

- PicoCTF 2022, 14th Nationally
- Choate Rosemary Hall, Dean's List All Terms
- ACT, 36
- Choate Rosemary Hall Award for Excellence in Robotics
- BB&N 2023 Hackathon Winner
- Innovation in Control, FRC Houston Hopper Division
- AP Computer Science A, AP Calculus BC, 5