Sidharth Rao

High School Senior at Choate Rosemary Hall

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Sidharth Rao is a senior at Choate Rosemary Hall, a leading college preparatory private high school. He is primarily interested in Computer Science, Robotics, and Engineering, and aims to work in the field of AI in the future. Sidharth is the Lead Programmer and Lead Technician on Choate's FIRST Robotics Team and is part of the Advanced Robotics Concentration signature program. He is a cello player in the Concert Orchestra at Choate, and outside of classes, he is the President of the Choate Aerospace Association. 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   **Starting on August 2023**
Ithaca, New York, United States

High School Senior, Choate Rosemary Hall   **September 2019 – Present**
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 for Academic Excellence in All Subjects (All Terms)
- ACT, 36
- AP Computer Science, AP Calculus BC, 5