

Raghav Sriram

Student, Leader, Researcher, Innovator, Full-Stack Developer

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EXPERIENCE

NexEdge Innovations, Carmel IN — CEO

June, 2020 - PRESENT

Founder of NexEdge Innovations, a multinational conglomerate company promoting fundamental skills in education and views on global issues.

Finessify, Nationwide — Lead Web Developer

November, 2020 - PRESENT

An Intuitive Scheduler that organizes a personal daily schedule for each of our users based on our ML Algorithm

ScioVirtual, Nationwide — Head of Programming Courses and Water Quality Teacher

December, 2020 - PRESENT

ScioVirtual is a nonprofit organization that provides quality virtual science courses. I am in charge of the Computer Science suite of courses offered by ScioVirtual and teach the Aquatic Ecology course as well.

Rapid Education, Nationwide — Front End Specialist

December, 2020 - PRESENT

Rapid Education is an intuitive and award-winning learning application that helps students understand important computer science concepts and is an efficient replacement for expensive 4-year college programs.

ORGANIZATIONS

AcademiaEdge, Carmel IN — Founder

November 2020 - Present

Nonprofit Organization aimed to teach students programming and problem-solving skills by providing free programming courses

Voices of Carmel — Founder

Julyr 2020 - Present

A nonprofit organization for the city of Carmel. We provide volunteering opportunities and a safe space for Carmel Citizens to voice their opinions.

SKILLS

Business Management

Research

Leadership

Web Development

Web Design

Adobe InDesign

Premiere Pro

Photography

Photoshop

Recruitment

Mentorship

Product Innovation

HTML/CSS

JavaScript

React

TypeScript

Python

JAVA

Machine Learning

Computational Biology

Biology

Chemistry

Earth Science

HiLite— Reporter and Copy Editor

August 2019 - Present

The HiLite is Carmel High School's Monthly News Magazine. For my second-year, I am a Feature Reporter and Cover Copy Editor. Through HiLite I have learned the fundamentals of journalism and graphic design.

Hack Indiana— Co-Founder

November 2020 - Present

I am the co-founder of Hack Indiana, the second-ever hackathon in the state of Indiana. We hope to run this hackathon in-person over the Summer unless COVID-19 precautions are still in place.

EDUCATION

Carmel High School, Indiana — Academic Honors Diploma

August 2019 - Present

Currently, I am a sophomore at Carmel High School and am working towards acquiring the necessary credits to receive the Academic Honors Diploma

Carmel Middle School, Indiana — Principal's Honors Award

August 2016 - May 2019

At Carmel Middle School I received the Principal's Honors Awards which is a distinguished award only awarded to students who received straight A's for all three years in middle school

SELECTED RESEARCH

Indiana State Science Fair (2018) — 7th Grade 2nd Place

For my 7th Grade Science Fair Project, I did research on biodegradable bioplastics and was able to create my own cornstarch-based bioplastic that had comparable tensile strength to traditional petroleum based plastics.

Indiana State Science Fair (2019) — 8th Grade 1st Place

For my 8th Grade Science Fair Project, I did research on the effects Formaldehyde and PM 2.5 particles had on Nitrate concentration of water by taking numerous samples across the Earth and finding trends..

10th Grade Science Fair Research Project— Computational Biology Research

Currently working on my 10th Grade Computational Biology Science Fair Project which analyzes the protein to protein and protein to ligand

Fields of Interest

Scientific Research

Bioinformatics

Computational Biology

Structural Biology

Entrepreneurship

Startups

Nonprofits

Full-Stack Development

Machine Learning and

Artificial Intelligence

Biogeochemistry

Education

LANGUAGES

English, Tamil, Telugu, Spanish

Exam Scores

AP World History (2020): 5

ACT (2018): 32

Grades

9th Grade GPA: 4.45

10th Grade GPA (1st

interaction between kinases through the utilization of LZeroD and AutoDock Vina and its implications towards biofilm interactions.

Professor Paul Brown— *Mentorship*

Since 7th Grade, I have been closely working with Purdue Professor Paul Brown and his research on the sustainability of aquaponics.

Potential theories regarding Hot Jupiter propagation around low-metallicity Population I stars— AASTCS 8: Habitable Worlds Conference

Research study conducted by Raghav Sriram, Archit Kalra, and Shirthan Sandadi on potential theories of Hot Jupiters around Population I stars. Utilized data from NASA Exoplanet Archive.

Viability of Pleochroism on predicting Mineral Morphology — *Geochemistry Research Project*

Currently working on publishing a paper that analyzes the optical characteristics of a Todorokite sample, more specifically it's Pleochroism, and it's implications to Todorokite Mineral Morphology. Clubs

SELECTED CLUBS

Science Olympiad— *Member*

September 2019 - Present

This is my second year participating in Science Olympiad. I compete in Dynamic Planet, Geologic Mapping, Astronomy, Disease Detectives, Water Quality and am part of the A-team.

Science Bowl— *Member*

August 2020 - Present

I am a club member and part of the C Team in Carmel High School's Science Bowl Team. Science Bowl is a nationally recognized buzzer competition run by the United States Department of Energy.

Biology Club Carmel— *Member*

August 2020 - Present

Club Member of Biology Club Carmel. We participate in fun biology-related activities and prepare for the USA Biology Olympiad (USABO)

Carmel STEM Club— *Member*

September 2020 - Present

I am a member of Carmel STEM Club which is a club that helps students at CHS with their science fair and engineering projects.

Semester): 4.80

Science Olympiad

Solon Invitational (2020):

Water Quality 7th Place
Medalist

University of Michigan

Invitational (2020): Dynamic Planet 1st Place, Water Quality 8th place, Astronomy 8th Place

Boyceville Invitational

(2020): Water Quality 1st Place, Disease Dynamic Planet 5th Place,

Pearl City Invitational (2020):

Dynamic Planet 1st Place, Disease Detectives 3rd Place, Water Quality 5th Place

AWARDS

Chicago TaeKwonDo

Championship: 2nd Place in Form and Breaking

National History Day (NHD):

State Finalist in Group Website

Central Indiana Science and

Engineering Fair (CIRSEF): 7th Grade 2nd Place Project

Central Indiana Science and

Engineering Fair (CIRSEF): 8th Grade 1st Place Project

International Medicine

Olympiad (IMDO): Gold Medalist, Top 25

Carmel Earth Science and Astronomy Club— *Lead*

September 2020 - Present

I am the Co-Founder of the Earth Science and Astronomy Club and CHS. This club is aimed to help prepare students for the United States Earth Science and Olympiad (USESO) and United States Astronomy and Astrophysics Olympiad (USAAO). We also compete in team-based competitions such as the National Oceanic Sciences Bowl (NOSB)

Vanderbilt Model UN:
Honorable Mention Diplomat

Munster Debate: 2nd Place
Public Forum

HOSA— *Lead*

September 2020 - Present

I am part of the Activities Planning Team in Carmel HOSA. HOSA stands for Health Occupations Students of America and has numerous healthcare-related competitions.

CHS MedLife— *Member*

August 2020 - Present

I am a member of CHS MedLife, a club at Carmel High School dedicated to students who are interested in going into the healthcare industry.

Carmel Hack Club— *Lead*

December 2020 - Present

Co-Founder of Carmel High School's chapter of the international nonprofit Hack Club. Through this club, we hope to create passionate programmers and set-up one of the first hackathons in Indiana. View our website at: <https://carmelhackclub.netlify.app/>.

Artificial Intelligence and Machine Learning Club— *Member*

September 2020 - Present

Member of Artificial Intelligence and Machine Learning Club. On the A-Team for Kaggle Competitions. Have only recently started getting involved with Machine Learning.

Carmel Model UN— *Member*

September 2020 - Present

First-year of participating in Carmel Model UN. Enjoy debating, drafting resolutions, and researching about member nations.

Carmel Debate— *Member*

August 2019 - Present

Second-year of participating in Carmel Debate. Compete in Public Forum. Enjoy writing cases

Political Discussions Club— *Lead*

September 2020 - Present

Officer of Political Discussions Club. We meet weekly to discuss and debate controversial political topics.

Voices of Carmel— *Lead*

September 2020 - Present

Founder of Voices of Carmel, a blog and volunteering organization that invokes positive change in the city of Carmel. We spread awareness of numerous issues, create petitions, and organize fundraisers and volunteering opportunities. View our website at:

<https://voicesofcarmel.com/>.

CHS Quill and Scroll— *Member*

September 2020 - Present

Member of Carmel High School's chapter of the International High School Journalism Honors Society.

Carmel SWENext— *Lead*

September 2020 - Present

One of the leaders in Carmel SWENext. We compete in a variety of Engineering and Technology based competitions such as the NIH Brain Initiative Challenge, NASA's space settlement competition, and Lemelson InvenTeam.

ATHLETICS

Tennis— *Carmel High School Junior Varsity*

August 2019 - Present

I have play tennis since 7th Grade and have qualified for the school team in consecutive years

TaeKwonDo— *Third Degree Blackbelt*

2011 - Present

I have competitively competed in TaeKwonDo since I was six years old and I am a Third Degree Blackbelt at GrandMaster Lee's TaeKwonD