Vikram Nagarajan

High School Junior and Skilled Software Developer

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EDUCATION

North Allegheny Senior High School

Class of 2023

GPA 4.6; **Straight A's** in AP Calculus BC, AP Computer Science, AP Statistics, AP Physics I, AP Physics II, and AP Computer Science Principles

EXPERIENCE

Research Intern, *Colorado State University*

June 2021 - PRESENT

Currently researching how machine learning and NLP can be applied to predict misinformation in media along with a Ph.D. student

Research Intern, *University of Pittsburgh*

July 2021 - PRESENT

Currently researching how teams collaborate on open-source projects at the University of Pittsburgh under the mentorship of a professor and undergraduate student

Founder and Coding Instructor, *Coding Genius 2020*

July 2020 - PRESENT

Created and organized a free virtual summer coding camp for elementary and middle school students; taught Python and Java to over 80 students
Authored Course Materials: Java | Python | Python 2

Project Ignite Team Member, *Carnegie Melllon University*

December 2019 - PRESENT

Developed ML projects in collaboration with CMU CS students
Projects: Image classifier for categorizing foods, nearly unbeatable minimax AI to play checkers, and ML model to predict stock prices

PROJECTS

NoHate — *Github Link*, *Devpost Link*

A Chrome extension that uses machine learning and NLP techniques to detect and prevent hate speech and offensive language in text messages

EzSheets — *Github Link*

Helps students and teachers find worksheets for class by automatically scouring the web for free, high-quality, and downloadable class materials

SmartNotes — *Github Link*

Programmatically creates a study guide with notes and key terms based on a given topic using text summarization algorithms

SKILLS

Fluent in Python, Node.JS/JS, C#, Java, HTML, and CSS

Proficient in Tkinter, Flask, PyTorch, Selenium, NLTK, and Unity

Ability to research complex topics and create impactful reports and presentations

AWARDS

National Academic League: won 1st place among hundreds of schools across the country and showcased on website's homepage

Finished in 1st place at the Pine Richland International Debate Tournament

Finished in 1st place at the Shadyside Debate Tournament

Undefeated at both the Moon and Seton LaSalee FroshSoph Debate Tournaments

Top 10 at the OneHacks Coding Hackathon (submitted **NoHate Project**)

Authored book and was reviewed in leading newspaper; book is available online and in local library; raised $1200 for charity from sales of the book

COMMUNITY SERVICE

Raised $400 in one day via a bake sale for the **Save the Children** charity

150 hours tutoring coding at Steel City Codes & **Coding Genius 2020**