

RAKESH PILLAI

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EDUCATION

Junior (11th grade) at Thomas Jefferson High School for Science and Technology

GPA: 4.28 / 4.0

SAT: 1520

Expected Graduation in June 2021

ENGINEERING/CS EXPERIENCE

Givology Software Engineering intern

Actively maintained, developed, and tested the official Givology website with a team of interns

June 2019 – August 2019

3+ years of programming experience in multiple languages

I have been programming since 2017 when I started learning from Lynda.com. Since then, I have taken multiple courses and taken part of many events where I developed my CS skills. I'm very comfortable with Java and C and I've written hundreds of lines of code with both. I am adequate with Python.

2017-current

Data Structures Including AP Computer Science A

In this course, I mastered the use of hashmaps, heaps, listnodes, trees, and many other data structures.

2018-2019

Parallel Computing

In this course, I learned how to efficiently run gigantic amounts of code by using a library of routines known as MPI.

2019-2020

AP Calculus AB and BC

In both these courses, I have learned much more than just the basics. I can use Taylor-Maclaurin polynomials, integrating over 3D shapes, and understand logistic models with differential equations.

2018-2020

AP Statistics

In this course, I learned advanced statistics and gained the ability to analyze different types of research and apply different types of tests.

2019-2020

RELATED EXPERIENCE

Botball Robotics Competition

Member

I spearheaded the development of our modular hooking device which we planned to use in the Botball competition (it was unfortunately cancelled due to Corona).

2017 – current

Innovations in Concepts and Engineering (ICE)

Vice-President

For the past 2 years, I have learned dozens of compelling modern innovations in the engineering industry. The club has been a place for me to learn and meet new friends that are also interested in engineering.

2018 – current

Team America Rocketry Challenge (TARC)

Team Captain

I played a large role in the design and development of my team's model rocket. I used a software called OpenRocket to help design our Rocket's body. I produced the Rocket's egg casing, fins, and body tube.

2018 – current

German Honor Society

President

2017-current

German has been one of my favorite clubs and is a place where I can relax with my friends and foster a German community at my high school. I curate events, help design t-shirts, and learn German!

Chinmaya

Summer Camp Counselor

I gained skills in leadership and mentorship through teaching young kids swimming, camping and more.

Summers of 2018 and 2019