

Rohit Shete

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EDUCATION

University of Maryland

College Park, MD

BS in Computer Engineering

May 2025

Relevant Coursework: Object Oriented Programming, Algorithms & Data structures, Signal Processing, Embedded Systems, Proof Based Math(Linear Algebra, Multivariable Calculus, Differentiable Equations), Computer Systems, Discrete Structures, Genome Computing

EXPERIENCE

Math Tutor

May 2022 – Aug. 2022

Mathnasium

Needham, MA

- Taught K-8 students math topics ranging from basic addition to quadratics
- Taught up to 3 students at once and taught a total of 20 + kids

Research Intern

June 2020 – Aug. 2021

Boston Children's Hospital

Cambridge, MA

- Worked with Genetics Researcher and Cardiologist
- Genetics Researcher: analyzed potential places of gene mutations to learn how a mutation in that location could affect nearby genes
- Involved data science to determine the distance between genes and importance between two genes
- Cardiologist: investigated different heart conditions to determine if patients with one heart condition likely had another and made graphs for zip codes to learn the general location of clients.
- Used Excel to calculate statistical data and make graphs. Used VBA macros to automate this work and to make daily blood pressure report in word that was made by hand before

Founder and President of Origami Club

Oct. 2019 – May 2022

Needham High School

Needham, MA

- Taught a group of 10-20 high schoolers origami, ran online during the peak of Covid, made a new lasting community
- Delegated roles to committed members of the club and did outreach at the club fair and on Instagram to attract more members. Started at 5 and grew to 20 with outreach

Hardware Member of FTC Robotics Team

Sept. 2018 – May 2022

Needham High School

Needham, MA

- Worked on the hardware of the robot. Made great improvements in the linear slide area by researching other robot designs and new products. Received club innovate award for this
- New design was smoother, more reliable, and more efficient than old slide, future-proofed a problem that is commonly found in FTC
- Qualified for states 2021 & 2022 and received Think award and runner-ups for Inspire award
- Social Media Manager: Used social media to help connect with other teams and potential team joiners

PROJECTS

OriMath Blog

Aug. 2022 – Feb. 2022

- Analyzed relations between Math and Origami
- Did outreach on Reddit to grow from 2 views per article to 4000+ views and used reddit to get feedback from math community and settle confusions. Received input from a leading expert in the field, Robert Lang
- Learned and taught how origami can solve cubic equations, how origami can increase the projected perimeter, how to split a paper into perfect nth's, etc.

TECHNICAL SKILLS

Languages: Java, Python, HTML/CSS

Technical: VS Code, MATLAB, LaTeX, Git

Libraries: pandas, NumPy, Matplotlib, scikit-learn