



Education

Cornell University '24
B.A. Computer Science
Minor: Marine Biology
GPA: 3.9

Computer Science

Introduction to Computing
Using Python, Linear Algebra,
Object Oriented Programming
and Data Structures, Discrete
Math, Functional Programming,
Computer Vision (Spring 2022)

Marine Biology

Introduction to Oceanography,
Cell and Developmental Biology,
Coral Reef Conservation and
Management (Spring 2022)

Hanover High School '20
GPA: 3.95

Coursework

Honors Biology, Honors
Evolution and Genetics,
Computer Science I & II,
AP Calculus, Honors Math
Modeling, Honors Probability
and Statistics, Honors
Physics, Honors Chemistry

Awards

High Honor Roll, Yale Book
Award (for outstanding
personal character and
intellectual promise),
Sportsmanship Award on Varsity
Soccer Team (New Hampshire
Division I State Champions)

Research Internships

Robert Hill Lab
Dartmouth College
Summers 2019-21

- ▶ Analyzed two-photon microscopy images of myelination in live mice
- ▶ Developed software to distinguish myelin sheaths from residual noise in confocal microscopy images
- ▶ Developed an app and virtual reality pipeline with Vaa3D and Fiji for neuron tracing in microscopy images

Rahul Sarpeshkar Lab
Dartmouth College
Summer 2018

- ▶ Engineered synthetic biomolecular circuits in bacteria

Skills

- ▶ Biology
Plasmid Electroporation, DNA Extraction and Digestion, Polymerase Chain Reaction, Image Analysis including ImageJ, Agave, TeraFly, Adobe Photoshop
- ▶ Computer Science
Data Structures, Graphics, UI/UX, Git, React-Native
- ▶ Languages
Swift, Python, Java, OCaml, Javascript, Metal

Marine Biology Initiatives

- ▶ Aquatics Club Founder and President, Hanover High School
- ▶ Creator and leader of a marine biology course, Hanover High School

Technical Experience

Introduction to iOS Development:

- ▶ Course Instructor Spring '22
- ▶ Teaching Assistant Fall '21

Cornell AppDev Developer:

- ▶ Resell: Used goods marketplace Fall '21
- ▶ Eatery: Develop featured menu options Spring '21

Projects

- ▶ Fluid Dynamics Simulation
- ▶ Ray & Path Tracing
- ▶ Boids: Bird flocking simulation
- ▶ Solar System: Runge-Kutta solar system orbit approximation
- ▶ Ecosystem simulation: Modeled inter-species interaction and capacity
- ▶ Slime Mold Simulation

See my website and Github for more:



[Website](#)



[Github](#)

Activities

- ▶ Scuba Diving: PADI-certified with >40 tropical dives
- ▶ Aquarist: maintains 1 reef tank and 3 freshwater tanks
- ▶ Photography and Videography: macro-photography of corals and fish.

See my blog for more:



[@fishyexperiences](#)