AYUSH NAYAK

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PROFILE

I'm Ayush Nayak, a 16-year-old from Westview High School, a coder at heart, but also loves biology, chemistry, astronomy, math. I love to do research and build new things, and I am always looking for the next cool project. Thanks!

AWARDS/HONORS

1st Place Worldwide NASA Settlement *2020*

US Astronomy and Astrophysics Qualifier (Top 30 Nationwide) *2021*

San Diego Science Fair 1st Place CompSci *2021*

Computer Science RED Award (Top award for Computer Science in the San Diego Fair) *2021*

Microsoft Imagine Cup Semifinalist *2021*

USA Computing Olympiad Silver Division (Top 2,000 in the USA) *2021*

2 x 2nd 6th Statewide Science Olympiad *2020*

Cyberpatriot Platinum Team Lead *2020*

AMC 10A Distinction *2020*

Google Code Jam Round 1 Qualified *2020*

SKILLS

Fluent in Python, C++

Proficient in C, Swift, R, Bashscript, Arduino, Jupyter, PyTorch, Keras, Numpy, Javascript.

Experience with Java, Bioconductor, C#, ReactJS, Angular, Flask, Django.

Avid Linux User (I don't use arch btw)

Web Design (HTML, Jekyll, WP)

Graphic Design (PS/Illustrator)

110+ WPM Typist

CAD: Solidworks, Fusion360, Blender.

EDUCATION

1470 PSAT *2020*

AP Chemistry (5) *2020*

AP Biology (Current) *2021*

AP Calculus (Current) *2021*

4.0 Unweighted GPA

4.35 Weighted GPA

PROJECTS & RESEARCH

Novel Interpretable Deep Learning approach to Variation Detection, discovered new correlations in RNA Data independently. *2021*

Novel visible light based high-rate optical/infrared data transfer. *2020-21*

Researching Single RNA cancer progression in mice with professor. *Ongoing (Research Paper)*

Researching Exoplanet measurements and Binary Stars research and validation with local observatory. *Ongoing (Research Paper)*

Predictive modeling for severity and predisposition for disease. *Ongoing (Research)*

Webapp to parse and diagnose genetic diseases quicker and faster than existing solutions. *2021*

iOS App using AI and surround sound to explain surroundings to sight impaired. *2020-21*

VOLUNTEERING & CLUBS

30+ Hours Coaching Science Olympiad

10+ Hours Teaching Chemistry

Secretary Alt Robotics