

A Y U S H N A Y A K

EMAIL: ayush.nayak@gmail.com

GITHUB: Shad0wSeven

PHONE: (858) 780-6078

PROFILE

I'm Ayush Nayak, a 16-year-old from Westview High School, a coder at heart, but also loves science astronomy, math and has biked like 1,200 miles the past year. 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*
Top 30 Worldwide Astronomy Qualifier *2021*
San Diego Science Fair 1st Place CompSci *2021*
Computer Science RED Award *2021*
Microsoft Imagine Cup Semifinalist *2021*
USA Computing Olympiad Silver Division *2021*
2 x 2nd 6th Statewide Science Olympiad *2020*
Cyberpatriot Platinum Team Lead *2020*
AMC 10A Distinction *2020*

SKILLS

Fluent in Python, C++
Proficient in C, Swift, R, Bashscript, Arduino, Jupyter, PyTorch, Keras, Numpy.
Experience with Java, Bioconductor, C#, JS
Avid Linux User (I don't use arch btw)
Web Design (HTML, Jekyll, WP)
Graphic Design (PS/Illustrator)
110+ WPM Typist
Understands Graduate Scientific Papers
Office and Web Fluent
CAD: Solidworks, Fusion360, Blender, Cinema4D

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 wireless 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. *Ongoing (Research Paper)*
Webapp to parse and diagnose genetic diseases quicker and faster than existing solutions. *2021*
iOS App using AI and CV and surround sound to explain surroundings to disabled. *2020-21*

VOLUNTEERING & CLUBS

30+ Hours Coaching Science Olympiad
10+ Hours teaching Chemistry
Secretary Alt Robotics