

# Rahil Verma

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## EDUCATION

**Duke University** - *B.S.E Biomedical Engineering, B.S. Computer Science, B.S. Math* Durham, NC, Aug 2022 – Current<sup>ss</sup>  
▪ Cumulative GPA: 3.82/4.00 | ACT: 36/36 | SAT2 Math 2: 800/800

**Winston Churchill High School** - *H.S. Diploma* Potomac, MD, Sep 2018 – Jun 2022  
▪ Cumulative GPA: 3.98/4.00 | AP Scholar with Distinction | Governor's Merit Scholastic Award

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## WORK EXPERIENCE

**National Institute for Standards and Technologies (NIST)** – *Pharmaceutical Research* Gaithersburg, MD  
*Summer Undergraduate Research Fellowship (SURF) Intern* May 2023 – August 2023

- Conducted independently designed experiments to optimize the stability of protein-based pharmaceutical formulations
- Synthesized findings for weekly written and oral reports to my team, presented at an organization-wide showcase

**Center for Global Women's Health Technologies (GWHT)** – *Data Processing* Durham, NC  
*Intern* Sept 2022 – May 2023

- Utilized MATLAB and Python to colorize and sort animal luminescence images of lung metastasis tumor signaling
- Created a novel grayscale-to-color script designed to display tumor signaling, cut processing times by hundreds of hours

**University of Maryland Biomedical Research Department** – *Oncology/Genetics Research* Baltimore, MD  
*Lab Assistant* June 2021 – Aug 2021

- Investigated the causes for mutation in APE1 and SMUG1 associated genes through protein crystallization experiments

**National Aeronautics and Space Administration (NASA)** – *Vector-Borne Disease Research* Remote  
*STEM Enhancement in Earth Sciences (SEES) Intern* June 2020 – Aug 2020

- Presented an independent award-winning study at 3 conferences on the effect of stormwater runoff on disease prevention

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## LEADERSHIP & ACTIVITIES

**Duke Consulting Club** – *Analyst* Durham, NC, Sep 2023 – Present

- Managing launch of Glow, an app created by a tech startup targeting event planning
- Lead weekly team meetings, communicate with client, research potential markets

**CS201 Data Structures and Algorithms** – *Teaching Assistant* Durham, NC, Aug 2023 – Present

- Lead a discussion section aimed at exploring fundamental Java principles such as runtime efficiency and algorithms
- Answer student questions during weekly office hours, brainstorm teaching methods in weekly meetings

**Link** – *Social Media App, Founder* Durham, NC, Jan 2023 – Nov 2023

- Designed to encourage in-person interactions, Link is a map-based ios app that allows users to plan spontaneous events in the busy world of college campuses and cities with a frictionless user interface
- Leading a small team of developers using Xcode, Firebase, and Github, sold to Glow in November 2023

**Duke Enable** – *Prosthetics Development Club, Member* Durham, NC, Jan 2023 – Present

- Use 3D scanning, CAD, MATLAB, and medical-grade 3D printers to design prosthetics for physically disabled patients
- Developed a neural network of sensors to be used on general-use prosthetics that can be calibrated for each client

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## AWARDS & RECOGNITION

**Awards:** Community Innovation Award (Society for Science 2021), Stockholm Junior Water Prize (2021), First Place Biology Project (ScienceMONTGOMERY 2021), AP Scholar w/ Distinction (2020-22), Governor's Merit Scholastic Award

**Recognition:** [DC News Now](#) - "Montgomery County High School Student Explains Shocking Environmental Findings", [Moco Show](#) - "Winston Churchill High School Student Receives Internship Assisting NASA at University of Texas"

**Publications:** [Readcube](#) - A Multiscale Data Set Linking Remotely Sensed Land Cover With Field-Based Observation

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## SKILLS & INTERESTS

**Technical Skills:** SwiftUI, Firebase, Github, React Native, Matlab, Java, Python, JavaScript, Solidworks, Excel, Powerpoint

**Biomedical Skills:** Dynamic Light Scattering, Protein Crystallization, Protein Synthesis, Protein X-ray Crystallography

**Interests:** Backpacking, fishing, hiking, gym, cooking, golf, lacrosse, tennis, NFL, PGA Tour, cars, travel