

# Amulya Garimella

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## Education

- 2021–2025 **Harvard College.**  
Likely joint concentrator in **Computer Science** and **Molecular & Cellular Biology**.
- 2017–2021 **Fox Chapel Area High School**, Pittsburgh, PA.  
GPA: 4.49 weighted/4.0 scale, top decile

## Honors

- 2020 **National Winner, Aspirations in Computing Award.**  
National Center for Women & Information Technology  
◦ Selected as one of 40 award recipients out of over 4,700 applicants all over the country. Also a **Western & Central PA Regional Affiliate Winner**. In 2019, selected as one of 360 **Honorable Mention** winners out of over 4,300 applicants all over the country.
- 2019 **National Fellow, she++ #include Fellowship.**  
◦ Selected as one of 50 national #include fellows helping drive tech education in their community

## Experience

- 2018–Present **Neurogenomics Lab**, *Carnegie Mellon University*, Pittsburgh, PA.  
Research Assistant  
◦ Developed machine learning algorithms to find epigenomic blood biomarkers for Alzheimer's Disease; results in paper on track for publication in *Nature Aging*  
◦ Responsibilities included: conducting computational analysis on biological data, creating complex visualizations using R and Python, performing molecular biology experiments in a laboratory setting  
◦ Experience with R, Python, AWS, SLURM clusters  
◦ Collaborated with team at Kellis Lab @ MIT  
◦ First high-school student on team
- Summer 2020 **Zero App.**  
Volunteer - On-the-ground, Development, Marketing teams  
◦ Volunteer, (sole high-school student on team) for contact tracing app which provided health attestation at 2020 DNC; determines the safety of local businesses in the community during the COVID-19 pandemic  
◦ Helped with front-end coding, on-the-ground strategy for 2020 DNC, research on every state's use of contact tracing, outreach to businesses in New Rochelle, NY
- 2020 **Draw Attention Project.**  
Creator  
◦ Drew portraits of activists and essential workers, featured art alongside quotes and donation info on social media.  
◦ Art displayed in local museums; raised money for local activists
- 2020 **AMIA Symposium 2020**, *American Medical Informatics Association*.  
Reviewer
- Summer 2019 **UPMC Hillman Cancer Center Academy.**  
Hillman Academy Scholar  
◦ Selected as one of 72 high-school students nationally to attend the program
- 2018–2020 **Pittsburgh STEM Symposium.**  
Head Student Organizer & Symposium Chair  
◦ A pioneering high school bioinformatics conference, the STEM Symposium introduced the concepts of computational biology to high school students of all skill levels and interests  
◦ Raised \$2,500 to fund the event for 2018–2019 with one sponsor, \$4750 for 2019–2020 with three sponsors. In 2019–2020, allocated \$3000 to scholarships for 6 underprivileged school districts to cover costs of transportation and substitute teachers  
◦ Hosted a slate of researchers and entrepreneurs from local universities and companies, and over 200 students from the Greater Pittsburgh Area, including students from underprivileged schools  
◦ Created Symposium website and other outreach materials