

ETASH JHANJI

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SUMMARY STATEMENT

Analytical and goal-oriented student with a strong academic record and a demonstrated passion for research. Proven ability to collaborate effectively in team environments and to drive innovative solutions reliably.

EDUCATION

Fox Chapel Area High School

High School Diploma

Pittsburgh, PA

Sep. 2021 – Jun. 2025

- GPA: 4.49 (W), 4.0 (UW)
- National Honor Society

Pennsylvania Governor's School for the Sciences @ CMU

Summer Program

Pittsburgh, PA

Jun. 2024 – Jul. 2024

- One of 72 students selected from a pool of 524 applicants across Pennsylvania to attend
- Engaged in college-level courses in discrete math, computer science, special relativity, cellular cancer biology, organic chemistry, AI and ML, mathematical finance, and a computer science + AI laboratory
- Devised, researched, and presented a culminating research project on optimizing computational gameplay strategies in BlokusDuo using techniques including Minimax, MCTS (w/ CNNs), and PPO

RESEARCH EXPERIENCE

Student Researcher

Hukriede Lab: Univ. of Pittsburgh Integrative Systems Biology

Jun. 2023 – Aug. 2023

Pittsburgh, PA

- Complete extensive computational analysis of fluorescent microscopy images
- Develop an innovative computation to analyze stain localization on nephron tubules using computer vision
- Understand tissue structures of the kidneys and staining to work on data collection for a research publication

Student Observer

Yam's Lab: Univ. of Pittsburgh Dept. of Ophthalmology

Apr. 2021 – Jul. 2021

Pittsburgh, PA

- Observed laboratory processes and equipment.
- Inspected results of a scratch wound assay to collect quantitative data for analysis and publication.

VOLUNTEER EXPERIENCE

Director of Media, Special Events and Enhancements Teams

Steel City Codes: Executive Branch

Oct. 2023 – Present

Remote

- Manage social media for Steel City Codes, expanding media reach
- Design promotional materials and merchandise for general use and special events
- Expand the large set of Steel City Codes special events including hackathons and summer camps

Student Ambassador

Fox Chapel Area High School

May 2022 – Present

Pittsburgh, PA

- Introduce incoming students to the high school
- Aid the hosting of events to familiarize students and parents with the school

ACTIVITIES

Co-President

Science Fair Club

Aug. 2020 – Present

- Participate in local science fairs: Pennsylvania Junior Academy of Science and Pittsburgh Regional Science and Engineering Fair
- Organize ways to help other members navigate the paperwork and projects of a science fair
- President since 2023

Treasurer

Technology Student Association

Aug. 2021 – Present

- Design and build multiplex projects for competition on regional, state, and national level
- Manage club funds for students to be able to participate and build projects
- Treasurer since 2023

Secretary

Aug. 2021 – Present

Desi Club

- Lead and volunteer to spread awareness about Asian and South Asian Cultures.
- Perform Indian dances (i.e. Bhangra) in each annual D.E.S.I./Multicultural Night
- Part of the team that organized the first annual Multicultural Night, to include other cultural clubs
- Doubled attendance since the first year
- Secretary since August 2023, previously 'Event Planner' from August 2022 to 2023

Student Delegate

Aug. 2021 – Present

Model United Nations

- Research, debate, and collaborate solutions to current events
- Earned 292 NSDA Points: Distinction Degree

RELEVANT COURSEWORK/SCORES

AP Computer Science A	5	May 2024
AP Biology	5	May 2024
AP Language and Composition	5	May 2024
AP US History	5	May 2024
SAT	1570: 800 Math, 770 EBRW	Oct. 2023
AP Statistics	5	May 2023
AP World History: Modern	5	May 2023
AP Computer Science Principles	5	May 2022

TECHNICAL SKILLS**Programming Languages:** Python, Java, HTML/CSS/JS, R, SQL, LaTeX**Graphic Design:** Adobe Illustrator, Adobe Photoshop, Inkscape, Linearity Curve (formerly Vectrator), Canva**Microsoft Office:** Word, PowerPoint, Excel**SOFT SKILLS****Problem Solving, Work Ethic, Attention to Detail, Communication, Teamwork****HONORS AND AWARDS**

1st Place: Regionals and States, Perfect Score (States)	Feb., May 2024
Project: Exploring and Applying Audio-Based Sentiment Analysis in Music	PA Junior Academy of Science
Coding State Champions	Apr. 2024
Only national qualifier in the state, challenge involved a theory test as well as timed challenges.	PATSA
Technology Student Association Awards	Jan. 2024, 2023
Dragster Design (1st), Webmaster (1st), Coding (2nd), Technology Problem Solving (1st)	PATSA
Best Position Paper	Oct. 2023
For paper detailing the stance of Bangladesh on gang violence and child soldiers.	Pitt UCIS
1st Place: Regionals and States	Feb., May 2023
Project: Automation of the Morphological Analysis of Stem Cells with AI	PA Junior Academy of Science
Powering Pittsburgh: 2nd Place	Nov. 2022
Crafted novel solutions to improving the energy cleanliness of Pittsburgh	Pittsburgh Steelers and Shell Polymers
Outstanding Position Paper	Dec. 2021
For a paper detailing positions in a Model EU diplomatic simulation.	Univ. of Pittsburgh European Studies Center
Powering Pittsburgh Winner	Nov. 2021
Developed an innovative plan to renewably power Acrisure Stadium	Pittsburgh Steelers and Shell Polymers

PUBLICATIONS

Jhanji, E. Exploring and applying audio-based sentiment analysis in music (2024). *arXiv:2403.17379 [cs.SD]*.
<https://doi.org/10.48550/arXiv.2403.17379>.

Maggiore JC, Przepiorski A, Han H, **Jhanji E**, Streeter EC, McDaniels M, Hukriede NA. Loss of Histone Deacetylase 8 Enhances Proximal Tubule Acute Kidney Injury Repair. (2023). Manuscript in preparation.

Bressler A, Brown A, Frischmann J, Huang M, **Jhanji E**, Liu S. Blokus Duo: Using Deep Search Algorithms to Explore Turn-Based Game Strategy. (2024). Manuscript under review.