

# ETASH JHANJI

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## SUMMARY STATEMENT

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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

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### 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

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### 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

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### Director of Media; Graphic Designer

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
- Part of the special events, enhancements, and checkin teams

### 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

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### 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
- Design interdisciplinary research projects and present to a panel of judges
- Organize ways to help other members navigate the paperwork and projects of a science fair

### 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

**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 in one year, continually grown since

**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**

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

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

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