

EDUCATION

Carnegie Mellon University <i>Bachelors of Science, School of Computer Science</i>	Pittsburgh, PA May 2029
Fox Chapel Area High School <i>High School Diploma, GPA: 4.58/4.00</i> <ul style="list-style-type: none">◦ Clubs & Societies: Science Fair, Mu Alpha Theta, Technology Student Association, National Honor Society, Desi Club◦ Coursework: Data Structures & Algorithms, Linear Algebra, AP CS A, AP Calc BC, AP Physics C, AP Bio, AP Chem	Pittsburgh, PA June 2025
Pennsylvania Governor's School for the Sciences <i>Summer Program, Hosted at CMU</i> <ul style="list-style-type: none">◦ Coursework: Discrete Math, Computer Science, CS Laboratory, OChem, Cell/Cancer Bio, AI/ML, Mathematical Finance◦ Culminating research project involved optimizing computational gameplay strategies in BlokusDuo using Minimax, MCTS (w/ CNNs), Reinforcement Learning, and Proximal Policy Optimization	Pittsburgh, PA June – July 2024

RESEARCH EXPERIENCE

Hukriede Lab @ University of Pittsburgh Integrated Systems Biology <i>Summer Student Researcher</i> <ul style="list-style-type: none">◦ Completed extensive computational analysis of fluorescent microscopy images◦ Developed a workflow to analyze stain localization on nephron tubules using computer vision◦ Understood tissue structures of the kidneys and staining to work on data collection for a research publication	Remote Jun 2023 – Aug 2023
Independent Research <i>Student</i> <ul style="list-style-type: none">◦ Created and presented slides, poster, and papers related to research at local science fairs◦ Executed methodological projects in biology and computer science research◦ Utilized data science and machine learning packages to manipulate and train on online data	Pittsburgh, PA Aug 2020 – May 2025

WORK EXPERIENCE

ScottyLabs: Technology <i>Terrier Full-Stack Developer</i> <ul style="list-style-type: none">◦ Ideate an agnostic, cusotmizable, self-hosted hackathon management platform for colleges and organizations◦ Design and optimize a novel backend architecture supporting expo (HackMIT style), rubric, and other judging styles in Rust◦ Implement styled pages, interfacing with the backend for participants, judges, and managers with SvelteKit and TailwindCSS	Pittsburgh, PA Sep 2025 – Present
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PROJECTS

- **Cardify:** Accesses Spotify API to display a profile summary card with a customizable character in the style of Pokemon games.
- **SongSorter & Exploring and Applying Audio-Based Sentiment Analysis in Music.:** Trained models to determine the emotion of a song on Russel's circumplex model of affect in PyTorch and created a Java application to interface and visualize the data extracted from Spotify clips
- **Automation of the Morphological Analysis of Stem Cells & Hukriede Lab:** Scripts used to analyze fluorescent microscopy imaging to quantify cell count, shape, regularity, and stain intensity then collect data to make manual inferences.

PUBLICATIONS

- **Jhanji, E.** Exploring and applying audio-based sentiment analysis in music (2024). *arXiv:2403.17379 [cs.SD]*. 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). bit.ly/pgssjournal.

SKILLS

Languages/Frameworks: Python, Java, HTML/CSS/JS, Typescript, React, Svelte, TailwindCSS, Vite, Rust, C, R, L^AT_EX
Technologies: Microsoft Office, Adobe Illustrator, Adobe InDesign, Neovim

HONORS & AWARDS

- **Rotary Club Honoree:** Selected by the math department and recognized by the Fox Chapel Rotary Club.
- **Coding State Champion:** PA Technology Student Association coding event involved a theory test and timed challenges.
- **First Award:** Awarded at the regional and state level by the PA Junior Academy of Science in 2021, 2023, 2024, 2025