Justin Liang

Available Immediately

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https://github.com/jliang2204 https://jliang2204.github.io/EPortfolio/

Education

UNIVERSITY OF PITTSBURGH (B.S. Computer Science) | Pittsburgh, PA Aug 2022 - May 2026 Projects

- Classifying AlphaZero King Positioning
 - Using ML methods in Python
 - Using SKLearn to analyze AlphaZero's games with Logistic Regression, Random Forest Classifier, and SVM
- · Battleship in Browser
 - Frontend project using React/JSX
- Fullstack Catering Management App
 - Using TSX/react for frontend and Rust/SeaORM for backend

CRANBROOK HIGH SCHOOL | Bloomfield Hills, MI

Sep 2018 - May 2022

Experience

Undergraduate Research Assistant

April 2025 – Current

University of Pittsburgh

- Recreating vignettes in 3D Unity as a virtual museum of historically significant photos
- Using ML models to tag objects in these photos as identifiers as well as allowing photos to be grouped
- Interacting with ChatGPT API to create alt-text for the photos with emphasis on prompt-engineering for concise and consistent alt-text that does not contradict the descriptions
- Handling large number of photos (~60,000) and working around rate-limits and using batching to process the photos

Game Development May 2024 - Aug 2024

Projects

- Developed a "Jump King"-style game in *Unity* with unique features using C#.
- Built a functional chess board with C#.
- Designed and implemented a responsive platformer player controller in C#, incorporating mechanics like variable jump height, coyote time, and jump buffering for smooth and precise user control.

Software Development Intern

May 2022 - Jun 2022

Wayne State University Car Lab

- Developed applications in Python and utilized TurtleBot for robotic control.
- Gained hands-on experience with ROS (Robot Operating System) and Docker.

Skills

PROGRAMMING LANGUAGES
WEB DEVELOPMENT
BACKEND & DATABASES
SOFTWARE & CLOUD

Python, Java, C#, JavaScript, TypeScript, Rust HTML, CSS, React, Node.js SQL, MongoDB, Rest APIs, Flask VSCode, ROS, Unity, MATLAB, GitHub, AWS, Docker

Other Accomplishments

USCF Chess National Master; Ranked #10 in Michigan