

Elle Ho

Pittsburgh, PA
📞 +1 7345487865
✉ yih151@pitt.edu
🌐 <https://echohyyy.netlify.app/>

Education

- 2023.8-2025.5 **University of Pittsburgh**, *MS, Information Science*, Pittsburgh, PA
- 2021.8-2023.5 **University of Michigan**, *BS, Computer Science*, Ann Arbor, MI
- 2019.9-2021.8 **Shanghai Jiao Tong University**, *BE, Electrical and Computer Engineering*, Shanghai, China

Technical Skills

Skills Python, C, C/C++, Unity3D, ReactJS, Next.js, SQL, Flask, TypeScript, JavaScript, UE4

Tools \LaTeX , Git, GCP, Firebase

Work Experience

- May - August 2024 **Gameplay Programmer Intern**, *SPARK NEXA*, Hangzhou, China
Frame-synchronized Multiplayer Online Roguelike Action Role-Playing Game
- Developed a Unity VisualScripting-based tool **ActionFlow** that modifies the visual behavior of entities to enhance game component management, decoupling visual effects from underlying logic and optimizing performance by reducing unnecessary computations.
 - Use the tool **ActionFlow** for simplified editing of game entity behaviors, applied to over 20 entity types and hundreds of gameobjects to simplify the workflow to adjust entity behaviors.
 - Integrated the UI element for the compendium and connected it to the game's notification system.
- January - Now 2024 **Indie Game Developer**, *HERL National Laboratories*, Pittsburgh, PA
Digital Therapist Training Game
- Led the development of an online multiplayer board game using Unity, managing all stages from game mechanics to UI/UX design, ensuring alignment with therapeutic objectives.
 - Implemented multiplayer online functionality using Unity Mirror for state synchronization, enabling seamless multiplayer connections on a web platform.
 - Designed the game to enhance therapeutic understanding by providing detailed insights into mobility disability challenges, ultimately improving patient care in therapeutic settings.
- January - March 2024 **Full-stack Software Engineer Intern**, *Heymax.ai*, Singapore
Web Application
- Led the seamless migration and integration of the Intercom chatbot service at the engineering side, automating support for 3,500+ users and management of 1,000+ support tickets with Google Forms, Intercom, Telegram Bot APIs, and internal RESTful APIs. Achieved a 50%+ reduction in customer service effort and significantly faster response times.
 - Drove a 200% increase in Google search visibility within the first two weeks, achieving a sustained rise in web traffic through SEO optimization for the company site.
 - Boosted merchant page clicks by 4% by engineering interactive interfaces and a streamlined express log-in for logged-out users with NextJS and ReactJS, enhancing user engagement and navigation.

Relevant Courses

Web Systems
Database Systems

Computer Networks
Data Structure

Machine Learning
Algorithms