

# Elle Ho

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## 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  $\text{\LaTeX}$ , 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 **Game Programmer**, *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