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	LaTeX, Git, GCP, Firebase

Work Experience

Gameplay Programmer Intern, *SPARK NEXA*, Hangzhou, China
May - August 2024

- Contributed to the development of a frame-synchronized multiplayer online roguelike Action Role-Playing Game project.
- 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 'Blessing' compendium and connected it to the game's notification system.

Indie Game Developer, *HERL National Laboratories*, Pittsburgh, PA
Digital Therapist Training Game
January - Now 2024

- 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.

Software Engineer Intern, *Heymax.ai*, Singapore
January - March 2024

- 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	Computer Networks	Machine Learning
Database Systems	Data Structure	Algorithms