

Derek Yang

1770 Broadway St., Apt. #400 • Ann Arbor, MI 48105 • (810) 893-1468 • dereky@umich.edu

EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science, Minor in UX Design, Minor in Business

May 2026

GPA: 3.96/4.00

Awards: Dean's List (Fall 2022, Winter 2023, Fall 2023, Winter 2024), James B. Angell Scholar, XR @ Michigan 2023

Student Showcase - Best Environment, William J. Branstrom Freshman Prize

Coursework: Programming and Data Structures, Data Structures and Algorithms, Software Engineering, Extended

Reality, Web Design, Web Systems, Foundations of Computer Science, Intro to Computer Organization

EXPERIENCE

Next Play, Daily Fantasy Sports

Remote

Software Engineer Intern

May 2024 – August 2024

- Worked on team of six to build software using agile methodologies with ClickUp, boosting team efficiency by 30%
- Developed React components in TypeScript to create user-friendly pages for drafting players
- Tested player entry through mock API tests with Postman to ensure functional player data storage
- Utilized responsive design approach with CSS media queries to create adaptable components based on screen size

University of Michigan Robotics Department, MAVRIC Lab

Ann Arbor, MI

Research Assistant

May 2023 – August 2023

- Researched human-robot interaction in context of augmented reality and shared mental models to develop AR collaborative task for human-robot team
- Formulated and built color-sorting task on Magic Leap 2 using eye, marker, and hand tracking APIs from Unity SDK
- Employed ROS2 system to assemble controller to automate two AR robots according to other agents' intentions
- Presented summary of past research and own research to professors through written reports and live demo

PROJECTS

Collaborative Lab for Advancing Work in Space, NASA SUITS Challenge

Ann Arbor, MI

AR Team Member

April 2023 – Present

- Communicated with UX team about mini-map interface to implement design in Unity with C# scripts
- Implemented frontend for communication system among astronauts and control center using MRTK package

MHacks 16, SHAKYS.

Ann Arbor, MI

Project Lead

November 2023

- Supervised team of four to devise 2D action game with smart bosses able to adapt to player's habits
- Assisted with implementing neural network and engineering adaptive AI with C# scripts in Unity

Intro to Entrepreneurial Design: AR/VR Lab, 1:AM Train

Ann Arbor, MI

Unity Developer

February 2023 – April 2023

- Illustrated storyboard of VR game by discussing interface and user actions with three other members
- Integrated swimming and voice recording functionality in VR by coding C# scripts in Unity
- Showcased game to students, faculty members, and industry workers with presentation and live demo

COMPUTER SKILLS

Platforms: Windows, Unix

Languages: C/C++, C#, Python, HTML, CSS, JavaScript, TypeScript, SQL, LaTeX

Tools/Frameworks: Unity, Unreal Engine, Git, React, ROS2, VSCode, Visual Studio, Blender, Figma, Excel, Word

ACTIVITIES

Alternate Reality Initiative (XR Student Organization), *Member*

September 2022 – Present

Super Smash Bros. Ultimate Esports Team, *Captain*

August 2023 – Present