

Ethan Y. Wang

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EDUCATION

University of Illinois Urbana-Champaign

Expected May 2027

Bachelor of Science in Electrical Engineering

Relevant Coursework: Computer Systems and Programming, Linear Algebra with Computational Applications, Top Down Video Game Design, Discrete Structures, Analog Signal Processing, Data Structures

GPA: 3.57/4.00

EXPERIENCE

The stu/dio at Illinois

Oct 2023 - Present

Technical Designer/Software Engineer

Urbana, IL

- Leveraged tools such as **Miro, Photoshop, Canva, and Unreal Engine** to develop clear and effective designs across multiple design disciplines, such as **Gameplay Loops, Feature Design Docs, and Paper Prototypes**.
- Led decisions across multiple design disciplines, such as **UX design, Gameplay Design, and Technical Design**.
- Developed two projects selected for display at the **Playful by Design Conference**, recognized for excellence in **Visual Impact** and **User Experience**, surpassing 5+ other projects developed at stu/dio.

GameBuilders

Feb 2024 - Present

Executive Board Member/Technical Designer

Urbana, IL

- Formed and guided 5 game development teams with over 50 members to individually create Steam ready games.
- Contributed to **Level Design, UI, and Gameplay Design**, while teaching **Unity** programming and basic design principles.
- Established optimized weekly schedule, organized socials and campus-wide projects showcases, and conducted design/programming workshops, increasing member retention rate to 61% (up from ~48% the previous year).

Gamers Not Players

Jun 2019 - Aug 2023

Gameplay Programmer/Game Designer

Cupertino, CA

- Initiated GitHub/Unity team to participate in 8 Game Jams (Hackathons); 2nd place 3 times out of over 20 teams.
- Programmed core game mechanics using **Unity, C# and Python** to deliver engaging gameplay experiences to 100+ players.
- Led game design decisions, such as **Game Balance** and **Level Design**, and efficiently cut scope based on time constraints.

PROJECTS

Master Dancer ([portfolio](#))

May 2024 - Present

- Designed and developed a game to teach players about dance techniques and the history of Loie Fuller.
- Led all design decisions across multiple disciplines, including **Gameplay Design, Technical Design, and UX Design**
- Authored documents such as **Gameplay Loops, Technical Design Docs, and System Overviews**.

Triplight ([itch.io](#))

Jan 2024 - Present

- Designed 30+ levels for Sokoban-style puzzle game, refining level progression to increase playtester engagement by 41%.
- Collaborated on **UI Design, Level Design, and Gameplay Design** to create a cohesive and engaging player experience.

Bike The Bullet ([itch.io](#))

Jun 2024 - Jun 2024

- Led cross-functional team of 4 to compete in Monkey Jam 2024, creating a bullet-hell style game with 300+ plays in 3 days.
- Wrote detailed design documents such as **Systems Breakdowns, Systems Loops, and Gameplay Loops**.
- Programmed the majority of the game in **Unity** while directing creative aspects such as **Art Direction and Sound Design**.

SKILLS

Programming Languages: C#, Java, Python, C++, C, LC-3 Assembly, HTML5, JavaScript, CSS, MATLAB

Additional Technologies: Unity, Unreal Engine, Godot, Photoshop, Miro, Canvas, Figma, NumPy

Organizations: UIUC Gamebuilders, The stu/dio at UIUC, HackIllinois, Virtual Reality Club, Project:Code