

# Hayden Westphal

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## EDUCATION

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### THE UNIVERSITY OF IOWA

Bachelor of Science in Computer Science

Iowa City, IA

Aug 2019 – May 2023

- **Programming Coursework:** Algorithms, Data Structures, Object-Oriented Programming, Intro to AI, Intro to Networks, Operating Systems, Theory of Computation, Web Mining
- *Secretary* of Lambda Chi Alpha Fraternity, Fall 2020 – Fall 2022
- *House Manager* of Lambda Chi Alpha Fraternity, Fall 2021 – Fall 2022
- Participated in the University of Iowa Hackathon 2022 by developing Capture Cam

## PROJECTS

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**Personal Website:** [haydenwestphal.com](https://haydenwestphal.com) (for additional information and projects)

### Get-More-Loot (March 2023 - Present)

- Developing an idle loot game that can generate over 100,000 unique enemies and items
- Anticipated to add more gameplay mechanics and increase player count by 50%
- Inspired by games like Diablo 3 and Cookie Clicker to create this web application
- Utilized: React, JavaScript, HTML/CSS

### Readability and Similarity of ChatGPT, Research Paper (January 2023 - May 2023)

- Directed a semester research project on the analysis of ChatGPT with 3 other group members
- Collected over 15,000 questions and compared the answers with ChatGPT for the same prompt
- Showcased ChatGPT's 90% similarity to humans, with only a 5% decrease in readability
- Displayed the strengths and weaknesses of natural language processing (NLP) models
- Utilized: Python, StackAPI, OpenAI API, JSON, CSV

### Capture Cam (September 23-24, 2022)

- Developed a Python app that can interpret license plates from an image with 75% confidence
- Collaborated with 3 other group members to finalize this hackathon project in under 48 hours
- Achieved the Best Data Visualization award while competing against 200 other students
- Utilized: Python, OpenCV, PyTesseract, SQLite, Tkinter

## ADDITIONAL

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### Technical Skills:

- Adobe Creative Cloud (Photoshop, Illustrator, InDesign)
- Microsoft Technologies (Word, Excel, Powerpoint, Access)
- VSCode, Git, Graphic design, Web design

### Programming Languages:

- Proficient: Python, React, JavaScript, HTML/CSS
- Familiar: Java, C#, Assembly, Matlab, SQL