

# 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, Programming Language Concepts, 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 University of Iowa Hackathon 2022

## PROJECTS

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

### Ranked List App (<https://hayden-ranklist.netlify.app/>)

- A ranked list React app that sorts in ranked order, allows edits, deletes, and saves as you go
- Currently working on pop-up warnings for invalid inputs, and web design principles
- Utilized: React, HTML/CSS/JS

### Capture Cam

- A Python application that can interpret license plate numbers from image, and compares to a DB
- We also trained Google's Vertex AI to identify license plates with 65% confidence.
- Utilized: Python, OpenCV, PyTesseract, SQLite, Tkinter
- Winner of the Best Data Visualization award at the University of Iowa Hackathon 2022

### Screentime Tracking (<https://cs4510-group8.netlify.app/index.html>)

- A student-led research project completed over the course of a semester by 4 students
- Led the design of the UI/UX, completed the settings page, and helped with core functionality
- Utilized: HTML/CSS/JS, Bootstrap, Chart.JS, Moment.JS, React.JS

### Risk of Rain 2 Utilities

- Created functions in C# to hook onto in-game events like sending chat messages & item drops
- Learned how to use ILSpy to decompile .dll files, and read through source code
- Joined the Risk of Rain 2 Modding Discord to meet like-minded people and learn from others
- Created an item description web app for new users to learn about item stats quickly

## ADDITIONAL

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**Technical Skills:** Advanced in Adobe Creative Cloud (Photoshop, Illustrator, InDesign), VSCode, Git; Proficient in Microsoft Technologies (Word, Excel, Powerpoint, Access)

**Programming Languages:** Advanced in Python, JavaScript, HTML/CSS; Proficient in Haskell, Java, MATLAB, React; Familiar with SQL, Java, C#

**Awards:** Capture Cam, Best Data Visualization award;