Rex Hart

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Education

University of Wisconsin Madison
Bachelor of Science in Computer Science
Minor: Data Science
GPA: 3.6

Experience

Headstarter AI   **Jun 2024 – Aug 2024**
Software Engineering Fellow - Remote

Projects
– Developed AI integrated customer service chat bot to aid users with common questions or concerns.
– Used common practice A/B testing to optimize chat bot prompts and page layout.
– Developed AI integrated flashcard generator vercel app linked with firebase database.

Team Bulding
– Coordinated weekly meetings with team of fellows to distribute work among projects.
– Attended daily meetings with full-time Headstarter employees and guest speakers .

Extracurriculars

UW Madison Web Development Club (Member)   **August 2022 – Present**
– Attending weekly meetings to learn about web development, testing, and user engagement.
– Created personal website through skills developed by engaging in the club.
– Advised new members on how to proficiently test and rollout personal websites.

CrackaJack Solutions - Website Design Coordinator   **December 2021 – January 2022**
– Coordinated meetings with CrackaJack Solutions and a third party business owner to discuss feasibility, potential benefits, and layout of a potential new app.
– Created slideshow based on customer's prospective app layout to pitch development to customer.

University Projects

Unity 2D - Zombie Survival Game
– Developed Unity application along with one teammate.
– Implemented Zombie mechanics including movement, animation, and dynamic physics.
– Developed tile-map, interactive game objects, round progression mechanics, and UI.
– Implemented automated tests to ensure validity of game objects and scripts.

Dynamic Memory Allocator - C
– Designed an auto-coalescing heap allocator in C with 8 bit alignment and best fit placement.
– Developed a variety of tests to ensure allocation and freeing worked as restraints dictated.
– Resolved issues regarding memory leaks.

Djisktra's Algorithm - Shortest Path in Town - Java
– Took on Algorithm Engineer and Data Wrangler roles in group project of four members.
– Implemented Djisktra's Algorithm and created dot file representing the town.
– Read dot file converting locations into weighted undirected graph.

Skills

Cloud	AWS, Firebase	**OS**	Debian, Ubuntu, Mac, Windows
Languages	Python, Bash, Java, C, C#	**Testing**	Pytest, Docker

Hobbies

NBA, Photography, Anime, Skateboarding, Surfing, Video Games