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EDUCATION

•Iowa State University

2024

- -Senior Year Computer Science Student (Graduating May 2025)
- -Course work includes: Data Structures, OOP Progamming, Algorithms
- -Minor in Cybersecurity

EXPERIENCE

•SoilSerdem 9/2023-Current

Full Stack Developer Intern

Ames, Iowa

- Taking an active role in development on an NextJS + ExpressJS web app that allows farmers to look at data in a new way
- Worked with data scientists to deploy analysis tools and provide access to users
- Brought project ahead of schedule by **3 Months**
- Grew into role **replacing external development team** and brought programming in-house
- Connect platform to AWS S3 to store and retrieve user files
- Wrote efficient frontend/backend code to ensure low-latency product

•Big Data In A Box Solutions LLC

11/2021-9/2023

Intern

Ames, Iowa

- Created an **SQL** database using Azure Web Services to store user information
- Constructed a functioning serverless **Rest API** using Azure Functions, **reducing** running costs by **700**%
- Integrated OpenAI functions and created a serverless backend with Azure to power an Angular frontend

Personal Projects

 $\cdot News++$ 06/2024-CUR

A blog where I can write down thoughts about common development practices

- Tools & technologies used: Astro, CSS, JSX, Markdown
- I am deeply interested in learning new languages and frameworks. Therefore, creating a project like this allowed me to experiment with Astro and determine differences between other frameworks I have used in the past

•Raytracing Engine 08/25/2024 - CUR

In progress creating a multi-threaded ray tracing engine for my Computer Graphics course

- Tools & technologies used: C++
- Graphics software is of great interest to me, and currently in my Computer Graphics course we have been exploring ray-tracing
- This project include anti-aliasing, Spherical intersections, reflection/refraction, and more coming soon!
- In this project I also decided to multi-thread the application to reduce render time, causing an 81% decrease in runtime

Poke327 01/24/2023 - 04/03/2023

Created a neurses Pokemon game with map generation, NPC's, and battle!

- Tools & technologies used: Curses, C++, C, CSV
- This project was a part of my advanced programming techniques class. Our game was added to as the semester went on, while the semester ended before the game was finished. I implemented a battle system, npcs, and map generation.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Java, CSS/HTML, Javascript/Typescript, C/C++

Developer Tools: Postman, Azure, AWS, Git Frameworks: ReactJS, Astro, NextJS, Flask

Cloud/Databases: Azure, AWS, Microsoft SQL, SQLite, MongoDB, MariaDB/MySQL

Soft Skills: Communication, Team Work, Leadership

Coursework: Data Structures, Algorithms, low-level programs

Areas of Interest: Web apps, Open Source, Linux