Rebecca Soza
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Career Interests: Software development, machine learning, problem solving, and algorithm design. Currently working on developing a CPU emulator to run a compiler in C++.

Education:

Wichita State University ..... *January 2021 - December 2023*

- Bachelor of Science in Computer Science, Minor in Mathematics
- Magna Cum Laude (GPA 3.7)

Experience:

Wichita State University – Co-Author to Research Paper ..... *August 2023 – December 2023*

- Co-developed a literature review exploring a Convolutional Neural Network that identifies different bird species in an audio clip that will be presented in the GreenTech2024 conference as "Avian Song Identification Using CNN".
- Explored a dataset of ten thousand samples extracted from Xeno-Canto's API audio clips that were converted to spectrograms every five seconds through BeoShock HPC.
- Replicated two CNN models to identify the bird specie in a given soundscape which resulted to a similar AUC of 86% making our findings valid.

Flint Hills Resources Koch Industries - Software Engineer ..... *May 2023 – November 2023*

- Full stack development in Typescript and Python by implementing data integration for permits to be available while offline and contributed to internal libraries.
- Created a retrain pipeline for a machine learning model that can redirect the prediction of anomalies in high valued accounts.
- Built APIs with Lambdas and API Gateways for specific data pipelines through AWS.
- Used Azure DevOps to manage tasks.

Netapp - QA Student Contractor ..... *November 2021 – February 2023*

- Ran scripts to challenge the competence of different transport protocols such as iSCS, SAS, NVME, and Fibre Channel in relation to a specific CFW.
- Performed stress and functional tests on arrays and hosts to determine their capabilities under certain tasks.
- Used Bitbucket, Kanban Boards, JIRA, and open-source documentation to complete tasks.
- Contributed to developing an internal website using React, Docker, and Django.
- Set up and cable configurations of various arrays, switches, and servers.
- Set up various servers OS of type Linux (SLES/Redhat) and Windows.

United States Coast Guard - Yeoman Petty Officer Third Class ..... *February 2017 - March 2021*

- Performed administrative work by operating an internal software system to process pay and employee status such as marks, disciplinary actions, deployment papers, and retirements.
- Completed Apprentice Leadership Program being able to identify stress factors, influence others, and support an environment of respect as a supervisor.

Coursework:

Advanced Algorithms, AI for Cybersecurity, Computer Networks, Data Structures, Discrete Structures, Intro to Databases, Machine Learning, Object-Oriented Programming, Operating Systems, Programming Language Concepts.

Skills:

Languages/Frameworks: Python, JavaScript, Typescript, C++, AWS, Docker, Firebase, Linux, Bash, Vim, Vscode

Agile Frameworks: Bi-weekly Scrums, Kanban boards, Sprint Retrospective Events

CI/CD Tools: Github, Bitbucket, Confluence, Azure, Jira