LUCAS SORGE

COMPUTER SCIENCE

CONTACT INFO

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PROFILE

Computer scientist currently pursuing a Bachelor's degree in Computer Science with a minor in Data Science at Iowa State University. With a solid background in programming, data analysis, and software development. Eager to apply technical skills in a dynamic environment to drive meaningful technology solutions and innovations.

WORK EXPERIENCE

Seasons Marketplace　　2022-2023

Demonstrated strong problem-solving skills and the ability to work effectively in a fast-paced environment.

Collaborated with a team to ensure high-quality customer service.

HONORS & AWARDS

Dean's List　　2023

Honor Society for First-Year Academic Success.　　2023

Dean's List　　2024

EDUCATION

Bachelor of Science at Iowa State University.　　2022 - Present

Major in Computer Science with a Minor in Data Science

SKILL

Back End Development | Java - Python - NodeJS - Git

Front End Development | JavaScript - CSS - HTML - ReactJS

Data | SQL - NoSQL - NumPy - Pandas - Excel

Soft Skills | Problem Solving - Communication - Teamwork - Adaptability - Creativity

PROJECTS

Neural Network
- Designed and implemented a neural network from scratch.

- Applied various optimization techniques and activation functions to improve the accuracy and performance of the model.

- Used Python and relevant libraries such as TensorFlow and NumPy for the development and training of the neural network.

- Gained expertise in machine learning, data preprocessing, model evaluation, and tuning.

Chess Engine
- Developed a chess engine from scratch using advanced algorithms and techniques to simulate intelligent gameplay.

- Implemented evaluation functions and move generation algorithms to enhance decision-making capabilities.

- Utilized Java for optimal performance and efficiency.

- Acquired skills in algorithm development, optimization, and debugging complex code.

Sorting Visualizer
- Developed a visualizer tool to demonstrate the sorting process using sort algorithms.

- Implemented the algorithm in JavaScript, HTML, and CSS to visualize the step-by-step sorting process.

- Created an intuitive and interactive user interface for better understanding and educational purposes.

- Enhanced skills in algorithm implementation, data visualization, and UI/UX design.

PathFind Visualizer
- Developed a visualizer tool to demonstrate the pathfinding process using path-finder algorithms.

- Implemented the algorithm in JavaScript, HTML, and CSS to visualize the step-by-step pathfinding process.

- Created an intuitive and interactive user interface for better understanding and educational purposes.

- Enhanced skills in algorithm implementation, data visualization, and UI/UX design.

COURSE WORK

Data Structure and Algorithms

Design and Analysis of Algorithm

Data Mining

Machine Learning

Probability and Statistics

Linear Algebra

Discrete Computational Structures

LANGUAGE PROFICIENCY

English: Fluent

Portuguese: Native

Spanish: Advanced