Nick Clouse

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Skills

Languages	Java, Python, JavaScript, R, HTML, CSS, SQL/MySQL
Frameworks / Libraries / Tools	React, NextJS, Spring/Spring Boot, Hibernate, JUnit, SciKit-Learn, Torch, NLTK, Flask, HoloViz, Git/GitHub/Gitlabs

Work Experience

MSU - Space Science & Engineering Lab

May 2025 - August 2025

Software Engineering Intern

- Improved data parsing efficiency by 62.5% by utilizing multiprocessing in Python.
- Developed a scalable data pipeline capable of handling gigabyte-scale datasets.
- Built a web application using Python, integrated with InfluxDB, to visualize instrument data from the International Space Station.
- Developed and optimized Ruby scripts to support large data transfers between satellite and ground systems, focusing on reliability and performance

Iron Horse Golf Course

May 2023 - August 2024

Outside Services

- Provided high-quality member support by assisting guests and ensuring smooth operations during arrivals and events.
- Maintained and prepared golf equipment (clubs, carts, balls) with attention to detail, ensuring readiness and reliability.
- Organized and tracked inventory in the bag room, improving efficiency and maintaining a clean, well-structured environment.
- Supported tournament logistics by setting up equipment and coordinating event preparations.
- Delivered excellent customer service by addressing member needs quickly and professionally.

Projects

InitMusic

GitHub

A full-stack web application built in a small team using Java, Spring, Gradle, JUnit, MySQL, HTML5, CSS, JavaScript, and RESTful web services. Integrated an external API for music streaming and utilized Git/GitHub for version control.

Book Recemmender

GitHub

A recommendation system using Python, scikit-learn, Flask, and NLP techniques to suggest books based on user preferences and sentiment analysis. Implemented data preprocessing, TF-IDF vectorization, and cosine similarity to generate personalized results.

Juice Bottler

GitHub

Developed a multi-threaded orange processing plant simulation using Java and Apache Ant, leveraging data and task parallelization to efficiently process and bottle oranges. Utilized Java multithreading to simulate multiple plants with concurrent workers, optimizing performance and resource utilization.

Education

2022 - 2026 B.A. Computer Science, B.A. Data Science at **Carroll College** (Helena, MT) (GPA: 3.7/4.0)