Rylan Mahany

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OBJECTIVE: Fourth year computer science student seeking a co-op opportunity in Computer Science, Software Development, Database Management, Data Science, AI, or Machine Learning. Available August-December, August-May 2024.

EDUCATION:

Rochester Institute of Technology - Rochester, NY

Bachelor of Science Computer Science - Expected May 2025
Relevant Courses: Analysis of Algorithms, Intro to Software Engineering, Concepts of Parallel and Distributed Systems, Intro to Computer Science Theory, Concepts of Computer Systems, Principles of Data Management, Programming Language Concepts, Intro to Artificial Intelligence, Machine Learning, Probability and Statistics

PROJECTS:

Web Checkers – Group of 5 - 2020:

- Created Model-Tier components in Java to create the Checkers game.

- Used Spark web framework with a Java-based web server to display the game and connect players.

- Worked with the Scrum project management style.

Tool Sharing Application – Group of 4 – 2022:

- Used PostgreSQL with a Python interface to create and manage a database of tools, that users are allowed to share with each other, register, and delete.

- Performed exploratory data analysis for the database to make an "Also Borrowed" recommendation.

- Created a dashboard with information such as their tools and most often borrowed/lent tools.

Compiler – Group of 4 - 2023:

- Created a tokenizer using Java to read in a file of a made-up programming language to its smallest pieces.

- Created and validated a parse tree of the program to error check it and ensure it can be translated.

- Created code generation that turns the made-up language into valid Java/C/Python code by following the tree.

See more projects on GitHub: https://github.com/rylanmahany

SKILLS:

Programming Languages: Java, Python, C#, C, SQL, MIPS Assembly, BASH

Software: Slack, GitHub, Trello, Microsoft Suite, .NET Framework, JetBrains Suite, Photoshop

Other Skills: UML Diagrams, Logistic Regression, Linear Regression, KNN, Neural Networks, Decision Trees

WORK EXPERIENCE:

Oxford Athletic Club, October 2018 – March 2020, Wexford, PA

Dishwasher
- Learned responsibility and accountability.
- Gained a strong work ethic.
- Filled into other positions in the kitchen: pantry/line cook.

VOLUNTEER WORK:

The Bradley Center, 2017-2020 – Pittsburgh, PA

- Helped organize different events for the organization.