Reona Choudhury

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https://github.com/rpxchoudhury

Objective

Currently a junior looking for opportunities to build on my knowledge in Computer Science as a software developer.

Education

University of Michigan **Ann Arbor**
Computer Science Engineering *2023-Current*
GPA: 3.0
Relevant Courses: Prog&Data Struct, Discrete Math, Data Struct&Algor, Foundations CmpSci
Wayne State University **Detroit, MI**
GPA: 3.83 *2022-2023*

Work and Volunteer

Gleaners Community Food Bank **Detroit, MI**
Mobile Distribution 2022-2023
Worked at 15 different mobile sites around Metro Detroit. Helped about 800 people everyday providing food to those in the community. Developed leadership skills and being able to work and collaborate as a team with fellow coworkers and bosses. Came up with new ideas to better help our community as well as improving efficiency for our roles as workers.

Skills

Programming Languages: C++, C, Python, React, Angular, Javascript**,** HTML, CSS
Platforms: Mac OS, Windows OS
Application: Microsoft Word, Google Docs, Microsoft Excel

Projects and Experience

Personal Website (HTML and CSS) (https://rpxchoudhury.github.io/Website/) **2024**
Focused on styling such as dividers, headers, margin spacing, different fonts and sizes. Learning how to make hyperlinks and pdfs accessible on the website.

Hash Tables (C++) **2024**
Paired data together to achieve a faster runtime. Looked at key words to be able to efficiently create a data table consisting of 100+ items. Learned how to minimize runtime and storage focusing on keywords and repetitive, but important data.

Euchre (C++) (https://github.com/rpxchoudhury/p3-euchre) **2023**
Programmed the card game Euchre against AI's. Learning about uses of data structures and efficiently designing code using derived classes and inheritance.

Traveling Salesman Problem **2024**
Implemented an algorithmic solution to TSP, focusing on optimizing routes and reducing computational costs. Used different methods of TSP such as Kruskal's,Prim's, and Branch and Bound depending on the scenario. Explored various heuristic approaches to achieve a nearly optimal solution.

Machine Learning (C++) (https://github.com/rpxchoudhury/p5-ml) **2023**
Identified the subject of posts from the EECS 280 Piazza using natural language processing and machine learning techniques. Gained skills on code efficiency and designing to be able to identify redundant code and what will make my code not slow down.

MHacks 16 **2023**
Participant