

Peyton Nagher

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Education

Michigan State University College of Engineering
B.S. Computer Engineering

August 2022 – May 2024

Experience

MSU IT, East Lansing MI
Student Info Tech Assistant

August 2022 - present

- Setting up laptops/workstations for staff and faculty
- In person, over the phone, and remote IT services (via Zoom, TeamViewer)
- Maintaining an inventory system of new and retired hardware

Jimmy John's, Oxford MI

June 2019 – August 2022

PIC, delivery driver, inshop employee

- Delivered orders to customers in the Oxford & Lake Orion area
- Handled customer support over the phone and in person
- Coordinated with area management for store improvement

Colleen Farrell Design, Rochester MI
Employee

November 2016 – August 2022

- Network management, general maintenance of company systems
- Handled upkeep and organization of the office's fabric sample library
- Assisted with furniture installations at client's residences

Technical skills

Python - *proficient*

HTML & CSS - *proficient*

Unix CLI – *proficient*

C/C++ - *proficient*

JavaScript - *novice*

PSpice & LTspice - *proficient*

Verilog - *proficient*

MATLAB/Simulink - *proficient*

Projects

N-Queens solver (Python)

- Computes all possible placements of queen chess pieces on an $N \times N$ board
- Invokes Microsoft's Z3 Theorem Prover and NumPy to evaluate and visually represent propositions

Sudoku solver (C++)

- Takes a CSV file of a sudoku puzzle of any size and creates 2D vectors to compute the solution
- Utilizes lambda expressions for key functions

Singly & doubly linked lists (Python)

- Implementations of linked lists with the functionality to add, remove, search, and represent data in different containers
- All functions are written to be either $O(1)$ or $O(n)$

4-bit ALU (Verilog)

- Combination of a logic block and multiplexer to perform logical operations on 4-bit input values
- Designed to be easily expandable with instantiation for larger size inputs