Connor Finnegan

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SKILLS & QUALIFICATIONS

Python, Java, C, Javascript, React, HTML, CSS, JSON,Tensorflow, Pandas, Scikit-learn, Raspberry pi, PCB Design, PCB Assembly,

EDUCATION

University of Massachusetts Boston, Boston, MA

Bachelor of Science in Computer Science | Expected Graduation May 2026

EXPERIENCE

Stop and Shop Supermarket | July 2021 - present

Assistant Customer Service Department Head | August 2023 - present

- Handle customer satisfaction and fix errors in orders.
- Manage and organize break schedules for the day, while finding coverage for shifts.
- Handle large sums of cash in forms of sensitive transactions, or deposits and withdrawals into the cash office.
- Assist other areas as needed including online pick up, self checkout, and the customer service desk.

Bakery Clerk | July 2021 - August 2023

- Prepared baked items throughout the day while also preparing the items needed for the following days.
- Broke down shipments of items and organized them in the freezer.

PROJECTS

Weather Prediction Model | October 2024

https://github.com/cfinnegan827/weather-prediction-model

Python, Tensorflow, Pandas, Machine Learning, Scikit-learn

- Using historical weather data over the past 10 years in Boston to predict the weather conditions on a given day with a focus on temperature. Using Pandas to manipulate the data for optimal readability and processing.
- Predicts the average, maximum, and minimum temperature for a given day using tensorflow using lag features to optimize the model while measuring accuracy with tactics such as R^2 score, root mean squared, and mean absolute error.
- Predicts temperature accuracy with an accuracy of at least 85% for future dates.

RP2040 Microcontroller | August 2024

Computer Hardware, PCB design, Python, Micropython

- Creating a microcontroller using the rp2040 chip that integrates all 26 programmable GPIO pins with pins for ground and power output.
- Using a 16mb flash device with various surface mount electrical components such as capacitors, resistors, and voltage regulating components.
- The custom designed pcb is programmable through usb connection in micropython. All used to create custom projects for home iot devices such as temperature sensors for household application.

Aeroponics Compute Blade System | In Progress

Computer Hardware, PCB design, Python

- Using custom built PCB in the form of blades to fit in a server housing to automate the growth of various plants. Each blade keeps track of a specific function, monitoring temperature both water and air and adjusting appropriately, making sure the water is at the proper pH level for optimal growth, and making sure the roots are watered at the appropriate time intervals. Generating easy to view reports for different time intervals such as days, weeks, month.