NICHOLAS J PASTORI

(248)-762-8960 | npastori@umich.edu

OBJECTIVE

Detail-oriented undergraduate computer science engineering student and mathematics minor with practical experience gained through lab and projects. Seeking an internship to apply my technical knowledge and passion for innovation.

EDUCATION

University of Michigan, Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science   April 2026

GPA 3.61/4.00

Coursework: Data Structures and Algorithms, Applied Computational Machine Learning, Optimization and Computational Methods, Computational Linear Algebra, Differential Equations

SKILLS

Computer Languages: C, C++, Python, Julia, SQL,MATLAB,
Applications: VsCode, PyCharm
Certifications: Red Cross Certified Lifeguard, NASM Certified Personal Trainer

PROJECT EXPERIENCE

University of Michigan, Ann Arbor, MI

Algorithmic Trading Project   July 2024 - Present
- Using Nasdaq Data Link and yfinance's APIs to receive in-time and historical market data for analysis
- Organizing market data into accessible dataframes using the pandas module
- Backtesting strategies using Zipline and pyfolio
- Graphing and visualizing results using pyplot
- Implementing paper trading strategies using the Interactive Brokers API

Amazon Review Classifier   January 2024 - April 2024
- Created, trained, and tested multiple machine-learning models in Python using Scikit Learn to predict the quality of Amazon product reviews
- Used a unique natural language processing model to create feature vector embeddings based on Amazon product reviews for the classifier algorithm
- Evaluated performance by calculating and comparing classification accuracies for multiple networks to determine which one best suits the data

MGuide Indoor Navigation Project   August 2023 - December 2023
- Collaborated on a student-led development team to create and implement a building navigation prototype to allow students to find specific rooms
- Created and rigorously tested main menu GUI in Python which allows the user to select the building and room they want to navigate to
- Researched and compiled a comprehensive report that interviewed stakeholders and analyzed peer-reviewed articles to assist with the development process

WORK EXPERIENCE

Vineyard Vines, Troy, MI   June 2022 - January 2024

Sales Associate
- Maximized product sales by using knowledge of current trends, sales and promotions
- Used a personal approach to provide exceptional customer service, helping to build loyalty and repeat business

Bloomfield Hills Swim and Tennis, Bloomfield Hills, MI   July 2023 - August 2023

Certified Lifeguard
- Monitored swimmers closely; ensure safety of all swiftly responding to anyone in distress while providing prompt first aid or CPR when necessary
- Cleaned, maintained, and performed chemical pool testing to ensure safety and cleanliness of facilities
- Maintained detailed records of incidents, pool chemical levels and equipment maintenance to ensure pool levels and standards are being maintained

ACTIVITIES

Alpha Sigma Phi Fraternity, *Pledge Class President*   January 2023 - September 2024
Alpha Sigma Phi Fraternity, *New Member Educator*   January 2024 - Present