

Mathew D. DiPuccio

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EDUCATION

University of Michigan | Ann Arbor, MI

Expected Graduation: April 2021

Candidate for B.S in Computer Science

GPA:

3.00/4.00

Core Coursework: Data Structures and Algorithms, Theory of Computation, Discrete Mathematics, Computer Architecture, Probability and Statistics, Programming Languages

EXPERIENCE

Oarex Capital Markets | Software Developer | Cleveland, OH

July-Sept 2019

- Worked with founder and CEO to design and implement a stock screener
- Utilized moving averages, sliding windows, and price pivot points to develop a technical tool for assisting with speculation and hedging for futures, equities and commodities
- Designed and implemented algorithm that uses market data from Alpaca's Trade API to find the equities and commodities that are approximate matches to desired trade setups

Drive My Way, Inc. | Research and Marketing Intern | Cleveland, OH

June 2016-Jan 2018

- Worked extensively analyzing trucking industry turnover data, developing surveys, and collecting information to calculate average cost of driver turnover
- Utilized innovative, patented matchmaking software to connect transportation workers to open employment positions
- Used Vyond, a cloud-based animated video creation platform, to design video animations for social media campaigns

PROJECTS

MST & TSP Path-Finding Simulator *C++ Project*

March-April 2019

- Calculates an optimal traversal between nodes with the ability to prioritize speed or accuracy
- Employs bounding algorithms and heuristics to optimize solutions for computational speed or memory

Stock Market Simulation *C++ Project*

Jan-March 2019

- Given an input stream of prices, locates optimal buy and sell points that achieve greatest profit margin
- Employs streaming algorithm
- Utilizes priority queue ADT and running median algorithm to achieve logarithmic memory

SKILLS

- Proficient: C++, C, Python, Java, Functional Programming
- Have Experience: JSON, HTML, XML, Application Program Interfaces
- Bloomberg Certified

EXTRACURRICULAR ACTIVITIES

- Wolverine Capital Investments | Energy Sector
- Michigan Finance and Entrepreneurship Club
- Lloyd Hall Scholar
- Phi Delta Theta Fraternity

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- Students with a Purpose
- Box Car Derby-Annual philanthropy event that supports ALS
- Michigan Mudbowl Club