

# Mason Matchinski

906-450-0482 | mjmatchi@mtu.edu | 225 Hubbell St Houghton, MI

## Education

### MICHIGAN TECHNOLOGICAL UNIVERSITY

- B.S. Computer Engineering · Cumulative GPA: 3.36 **May 2020**
- Masters in Business Administration · Cumulative GPA: 4.0 **Expected May 2021**

## Project Experience

### AUTOMATED STOCK AND CRYPTOCURRENCY TRADERS

**Summer 2020**

- Developed a genetic algorithm that learned when to buy and sell stocks
- Created, implemented, and tested algorithms to trade cryptocurrencies
- Learned how to collect, clean, and use large amounts of data in Python

### CLIMATE VISUALIZATION PROGRAM

**Summer 2020**

- Sought to solve the question "Where would I like to live?"
- Displays thousands of datapoints on an interactive map of the US using Plotly Express
- Allows users to adjust sliders to show desired temperature, precipitation, and more

### WIRELESS COMMUNICATIONS ENTERPRISE

**Fall 2019**

- Project manager of a team with diverse majors and skillsets
- Scheduled weekly meetings with sponsors and other teams
- Implemented visual, navigational, and backend updates to the sponsor's website

## Work Experience

### GENERAL MAINTENANCE | PICTURED ROCKS NATIONAL LAKESHORE

**Summers 2015 - 2018**

- Worked independently to mow lawns and maintain park landscapes
- Transported, operated, and maintained company equipment
- Maintained the cleanliness of the park's facilities
- Constructed boardwalks, fences, and trails
- Restored historic buildings

## Computer and Technical Skills

### Languages

- Python
- C/C#/Java
- Assembly
- Verilog

### Web Development

- HTML
- CSS
- JavaScript
- P5.js

### Software

- VS Code
- SolidWorks/NX
- Unity
- Jupyter Notebooks

### Libraries/APIs

- Pandas/NumPy
- Matplotlib
- Wolfram Alpha API
- Robin Stocks API

## Soft Skills

### Communication

- Listening
- Writing
- Open Mindedness

### Development Styles

- Agile Development
- The Unified Process
- The Waterfall Method

### Problem Solving

- Critical Thinking
- Creativity
- Patience

### Continuous Improvement

- Lean
- Six Sigma
- L6S