Jason Lin

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Education

University of Michigan – Ann Arbor **April 2026**
Bachelor of Science Engineering in Computer Science **GPA**: 4.0

- Relevant Coursework: Discrete Math, Honors Intro Stats, Programming and Intro Data Structures, Data Structures and Algorithms, and Foundations of Computer Science

Skills

Languages: C++, Python, HTML/CSS/JavaScript, R, Shell Scripting
Technologies: MongoDB, ExpressJS, ReactJS, Node.js, Git, RStudio, Bootstrap

Projects

MERN Diet Tracker **July 2023-August 2023**
Relevant Skills: MongoDB, ExpressJS, ReactJS, Node.js

- Designed and created a full-stack web app to allow users to input food items and view total nutritional information, thereby providing an easy way to track their daily diet
- Built using MERN stack: stored food data using MongoDB, created UI with React, constructed back-side elements using Node.js and ExpressJS
- Featured a search bar with a drop-down menu for easy look-up of food items

Arbitrage Bot **August 2023**
Relevant Skills: Python, API

- Created using Alpaca Trading's Python SDK: alpaca-py
- Performed triangular arbitrage between ETH/USD, BTC/USD, and ETH/BTC by receiving real-time crypto quote data from Alpaca Trading's data API and then performing calculations and trades if conditions are met by using Alpaca Trading's trading API
- Ran completely autonomously

linj2314.github.io **December 2023-Present**
Relevant Skills: Bootstrap, HTML/CSS/JavaScript

- Created a personal website from scratch using Bootstrap and vanilla HTML/CSS
- Features a wide variety of elements including icons, scroll spy, navbar, and popover
- Use Bootstrap elements such as containers, columns and rows, and gutters

Activities and Interests

UM Autonomy | Computer Vision Sub-Team **Fall 2023-Present**

- Worked on CV sub-team for this project team based on testing and developing an autonomous boat to compete in RoboNation RoboBoat competition
- Brainstormed ideas for and implemented a computer vision program in Python to identify buoys, game objects, and other obstacles that boat is required to navigate around
- Implemented code for Simultaneous Localization and Mapping (SLAM), allowing boat to maintain a digital map of its surroundings

Interests: Swimming, Running, Bodybuilding/Powerlifting, Origami