

EDUCATION

University of Michigan: College of Engineering

August 2021 - May 2025

- GPA: 3.96/4.0
- B.S.E in Computer Science, Environmental Engineering
- Discrete Maths, Intro to Sociology, Data Structures and Algorithms, Organic Chemistry, Statics and Dynamics,
- Organizations: Tau Beta Pi Electee, Ski + Snowboard Club

PROJECTS

Battery Recycling Initiative

Ann Arbor, MI | March 2022 - present

A personal project to mitigate the environmental damages of disposable e-cigarettes (vapes), and to inspire greener lifestyles.

- Coordinated an informal disposable e-cigarette collection system among various student organizations.
- Recycled 50+ disposable e-cigarettes to designated hazardous waste facility.
- Promoted the initiative through fliers and word-of-mouth creating a brand focused around battery recycling.

BettingScraper (Python, gspread, bs4)

December 2021 - February 2022

Hired along with another individual to build an application that would update a sports betting dashboard in real-time.

- Expedited data from 8 different sports betting websites to centralized 24 million cell Excel spreadsheet.
- Refined scraping algorithm until it reached a 1 minute runtime, enabling real-time decision making for the user.

TheFantasyAnalyst (Python, React, Flask)

November 2020 - July 2021

First large-scale project inspired by the want for further analysis behind personal poor fantasy football team performance.

- Built full stack cross-platform app that enables the user unique hindsight on fantasy football team and league.
- Conceived the most accurate metric of fantasy football team strength - the one-vs-all record.
- Marketed idea to ESPN Fantasy developer teams.

WORK EXPERIENCE

EECS 280 IA @ UM CSE Faculty

Ann Arbor, MI | January 2022 - present

Accelerated learning and belonging as a teaching aide for EECS 280, helping over 3000 students each year.

- Guided weekly lab sessions of 40 students, fostering inclusion and belonging among diverse student groups.
- Organized weekly personal 4 on 1 coaching sessions customized to each student's curriculum.
- Created exam questions that are equitable and accurately assess the transferable knowledge of material.

IT Intern @ NextEra Energy

Jupiter, FL | May 2022 - August 2022

Developed and supported the Storm Damage Model, a .NET website used to predict resource allocation during hurricane season. I did data engineering, cloud engineering, and full-stack development, working closely with various internal and external teams.

- Automated migration of on-prem MSSQL data to Aurora using Lambda, DMS tasks, and Step Functions.
- Automated writeback of non-formatted model data to on-prem MSSQL database using Lambda, S3 triggers, and SQL.
- Designed application to address pain point of a "lack of infrastructure to handle vendors" in company hackathon.
- Programmed Javascript server requests asynchronously to display and cache back-end data for .NET web application.
- Remodeled website's .NET stack to .NET core back-end and Next.js + Tailwind front-end.
- Enhanced user experience by decreasing click points by 50%.
- Decreased loading times for dashboard data by 25%.
- Deployed over 4000 lines of code to production.

Strategy Programmer @ UM Solar Car

Ann Arbor, MI | September 2021 - present

Active member of UM Solar Car, a club that builds a solar-powered car and competes in competitions around the world.

- Derived the Mitsuba Motor constant using machine learning, data modeling, and experimental testing.
- Research and model the efficiency of solar energy flow onto the solar arrays.
- Presented clear researched documentation detailing the methodology and limitations of projects.

AWARDS AND CERTIFICATIONS



Lean 6sigma
Yellow Belt



Duolingo 324 Day
Streak (Spanish)



Novi High School
Top Scholar



3rd Place BBUS
Case Competition

CORE VALUES

sustainability

empathy

curiosity

creativity

persistence