

EDUCATION

University of Michigan	Ann Arbor, MI	Aug 2021 – Dec 2024 (Expected)
<ul style="list-style-type: none">• B.S.E in Computer Science and Environmental Engineering, GPA: 3.96• Undergraduate Coursework: Discrete Maths, Intro to Sociology, Data Structures and Algorithms, Organic Chemistry, Statics and Dynamics, Linear Algebra, Computer Organization, Database Management Systems.• Organizations: Tau Beta Pi Electee, Michigan Ski and Snowboard Club, Michigan Scuba Club, Michigan Backpacking Club.		

EMPLOYMENT

Power Delivery IT Intern	NextEra Energy Juno Beach, FL	May 2022 – Aug 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.		
<ul style="list-style-type: none">• Automated migration of on-premise real-time asset data to AWS Aurora, and the writeback of non-formatted model results back to the on-premise MSSQL database using Lambda, DMS tasks, Step Functions, S3 triggers, and SQL.• Programmed asynchronous Javascript fetch API server requests to display and cache back-end data on demand for .NET web application, decreasing the amount of user click points by 50%.• Remodeled website's stack to .NET core back-end and Next.js + Tailwind front-end, improving cybersecurity protection and facilitating developer and user experience.• Deployed over 4000 lines of code to production, adhering to agile and DevOps methodologies.		
Instructional Aide EECS 280	UM CSE Faculty Ann Arbor, MI	Jan 2022 – present
Accelerated learning and belonging as a teaching aide for the 2nd core programming class with over 3000 students each year.		
<ul style="list-style-type: none">• Guided weekly lab sessions of 40 students, fostering inclusion and belonging among diverse student groups.• Organized weekly 4 on 1 coaching sessions customized to each student, focusing on fundamental programming concepts.• Created and graded exam questions that are equitable and accurately assess the transferable knowledge of material.		

PROJECT EXPERIENCE

Environmental Projects	
<ul style="list-style-type: none">• Battery Recycling Initiative:	Mar 2022 – present
A personal project to mitigate the environmental damages of disposable e-cigarettes (vapes), and to inspire greener lifestyles.	
<ul style="list-style-type: none">– Coordinated a vape collection system, leveraging student organizations to recycle 50+ vapes to hazardous waste facilities.– Promoted the initiative through fliers and word-of-mouth creating a brand focused around battery recycling.	
<ul style="list-style-type: none">• University of Michigan Solar Car:	Sep 2021 – present
Active member of UM Solar Car, a club that builds a 100% solar-powered car and competes in competitions around the world.	
<ul style="list-style-type: none">– Derived the Mitsuba motor constant using machine learning, data modeling, and experimental testing, which was necessary for the team to optimize the worth-of-charge calculations.– Researched the efficiency of solar energy irradiance on the arrays, discovering a 5% deficiency ignored in model.	
Technical Projects	
<ul style="list-style-type: none">• BettingScraper:	Dec 2021 – Feb 2022
Hired along with another individual to build an application that would update a sports betting dashboard in real-time.	
<ul style="list-style-type: none">– 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.	
<ul style="list-style-type: none">• TheFantasyAnalyst:	Nov 2020 – July 2021
First large-scale project inspired by the want for further analysis behind personal poor fantasy football team performance.	
<ul style="list-style-type: none">– Built full-stack Python + React Native cross-platform mobile app with 10+ calculated metrics for team/league performance.– Conceived the most accurate metric of fantasy football team strength - the one-vs-all record, which was marketed to ESPN Fantasy developer teams.	

AWARDS AND CERTIFICATIONS

- **NextEra Energy:** Lean Six Sigma Yellow Belt
- **University of Michigan Black Business Undergraduate Society (BBUS):** 3rd Place Case Competition
- **Novi High School:** Top 6 Scholar
- **Professional Association of Diving Instructors (PADI):** Open Water Diving Certification
- **Duolingo:** 328 Day Streak (Spanish)

SKILLS AND TECHNOLOGIES

- **Technical Skills:** Java, AWS, C++, Python, MySQL, Javascript, .NET, ASP.NET, CSS, HTML, React, C#, Pycharm, Visual Studio
- **Just for Fun Skills:** Piano, Salsa Dancing, Chess, Skiing, Golf, Tennis