

JOHN H. STOUFFER

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EDUCATION

Michigan State University

B.S. Computer Science | Dean's List 5x | GPA: 3.79

East Lansing, MI

May 2026

EXPERIENCE

Intern

Tesla

May 2024 – Aug. 2025

Reno, NV

- Designed and maintained 10+ real-time KPI dashboards in Power BI to monitor the performance of 100+ machines and tools on the manufacturing floor
- Developed and deployed an automated Python-based system for data refreshes and KPI alerts, reducing maintenance planning work by 15 hours per week
- Created and optimized queries/scripts with Python, DAX, and SQL, improving the evaluation of 50+ technicians and engineers across key performance metrics

ULA / TA (Data Structures and Algorithms)

Michigan State University

Jan. 2025 – Present

East Lansing, MI

- Providing and leading in helprooms to help students understand complex topics and debug their projects
- Offering online support using Piazza to assist students in understanding concepts outside of helproom hours
- Collaborating with other assistants and instructors to develop appropriately rigorous coursework and exams

PROJECTS

CampusBites | Django, Python, OpenAI API, React, JS, HTML/CSS, Git

Aug. 2024 – Sep. 2024

- Engineered a full-stack web application using React.js, Django, and the OpenAI API within 24 hours
- Leveraged Django to build a RESTful API, managing SQL database operations and JWT-based authentication
- Utilized the OpenAI API to provide tailored deal recommendations for users

Odyssey Maps | React, Leaflet, JS, HTML/CSS, Git

May 2024 – Aug. 2024

- Developed a responsive front-end in React, integrating Leaflet to provide dynamic, interactive maps
- Implemented a scalable search feature allowing keyword-based discovery of up to 15 maps (3 are currently live)
- Integrating a backend solution to enable user progress tracking

UFC Fight Predictor | PyTorch, BeautifulSoup, Python, Git

July 2023 – Aug. 2023

- Extracted comprehensive UFC fight and fighter data since 1993 using BeautifulSoup
- Developed a PyTorch-based neural network in Python, trained on over 7,250 fights
- Achieved a 70% accuracy rate when predicting upcoming UFC fight outcomes

Democratic Index Dashboard | Plotly Dash, Pandas, NumPy, Python, HTML/CSS

May 2023 – July 2023

- Refined and manipulated OurWorldInData's Democracy dataset spanning 167 countries from 1900 to 2022
- Implemented linear regression to forecast emerging trends up to 2030, highlighting potential political shifts
- Developed interactive dashboard with Plotly Dash with dynamic maps and charts to illustrate global changes

SCHOOL ACTIVITIES

Hackathons: MHacks (CampusBites), SpartaHack 8 (Democratic Index Dashboard)

Spartan Analytics Consulting Group: Project Manager and Analyst

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres, MySQL), JavaScript, HTML/CSS, R

Frameworks: wxWidgets, Qt Creator, React, Node.js, Django, Flask, OpenAI API

Developer Tools: Git, Docker, Google Cloud Platform, Netlify, VS Code, PyCharm, NeoVIM/VIM, Linux/Unix

Libraries: PyTorch, Sci-Kit Learn, Polars, Pandas, NumPy, Matplotlib