# Sami Veliu

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## EDUCATION

**Michigan State University** **Expected Graduation: April 2026**

*Bachelor's of Science* Computer Science | *Minor* in Business GPA: 3.85

## EXPERIENCE /

Spartan Food Security Council | **President** April 2024 - Present

- Raised **$503,000** in the past fiscal year, whilst in accordance with Michigan Government regulations, to provide funding for 4 university programs statewide to help feed students in Michigan.
- Partnered with Representative Jenn Hill to Introduce Bill #5097 (Hunger-free Campus Bill) into the House of Representatives to raise further funding for all public universities in the upcoming year.

## PROJECTS

ML Diabetes Risk Analysis Tool (DRAT) January-March 2024

- Used Decision Tree Classifiers on medical data (from kaggle) to generate risk analysis report based on 10+ scientific markers of developing diabetes (ie: Triglycerides Level, Age, and Number of Pregnancies).
- Increased accuracy rate by 12% (to **86%**) by switching from Linear Regression model to Random Forest model to account for the non-linear relationship between 'health markers' and diabetes diagnosis.
- Utilized SciKit learn API to split, train, and test models on datasets within SQL database.

Expense Tracking System - In progress June-Present 2024

- Implemented Django to create RESTful routes for secure user authentication and project management, and connected front-end HTTP requests to the backend using Django. Utilized HTML, CSS, Python, and Django for a user-friendly program. PostgreSQL to store data for user spending and projects.
- Admin-focused Expense Tracking system (ETS) to manage spending and budget reports for custom projects within an organization.
- Currently, $125,000 is tracked to monitor the spending of MSU administration on funding received through my organization to ensure transparency and maintain spending in alignment with governmental regulations.

Risk analysis Sensor Monitoring Tool - In progress July-Present 2024

- Real-time data collection of internal vehicular metrics (RPM, Brake Pressure, Acceleration Rate). Relayed this information into a live data crunching system to generate a live analysis of user driving habits and safety ratings.
- Scikit-learn API used to monitor live data feed from the OBD-II port and AI to derive analysis from sensor delta and Matplotlip to visualize data spikes/dips.

## TECHNICAL SKILLS

**Languages:** C++, Python, Java, HTML/CSS, Javascript, SQL, C# .Net Core(in progress)
**Developer Tools**: ReactJS, Django, pgAdmin, Git, VSCode, PyCharm
**Technologies:** AWS EC2, Microsoft Office Suite, Adobe Creative Cloud Suite
**Certifications:** CompTIA A+ Cybersecurity certification,