

# Brendan Adamski

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## EDUCATION

### Michigan State University, College of Engineering

Bachelor of Science, Computer Science, GPA: 3.7/4.00

Minor, Business, Broad College of Business

East Lansing, MI

August 2022 - May 2026

## ACADEMIC COURSES

CSE480, Database Systems	CSE325, Computer Systems	CSE331, Algorithms & Data Structures	PHY183, Physics I
CSE482, Big Data Analysis	CSE477, Web Development	CSE232, Intro. to Programming II	MTH234, Calculus I,II,III
CSE404, Machine Learning	CSE260, Discrete Mathematics	CSE320, Computer Architecture	CSE335, Software Design
CSE300, Ethics in Computing	CSE415, Parallel Computing	CSE498, Collaborative Design	MTH314, Matrix Algebra

## SKILLS

**Languages:** Python (Flask, Pandas, PyTorch), SQL, JavaScript (React), C/C++

**Frameworks & Tools:** React, Flask, Docker, Selenium, REST APIs, Hardhat. Copilot, Codex, Claude Code

**Data & Systems:** PostgreSQL, ETL Pipelines, Data Modeling, Automation

**Cloud & DevOps:** AWS (EC2/S3), Firebase/Firestore, Google Cloud Platform (GCP)

## PROJECT

### CSE498 CAPSTONE | MSU Federal Credit Union (4.0)

Developer, Team Contact

East Lansing, Michigan

January 2026 – Present

- Built a blockchain-backed payment platform enabling transparent, auditable transaction history
- Developed 39 secured Flask APIs (37 endpoints) with PostgreSQL and Web3 (Hardhat)
- Designed 5-table schema + 60 DB functions; implemented batched settlement and nonce control between environments
- Simulated users, transactions, and disputes via. threaded load-testing and scripted transaction generation for demo
- Led Agile sprints and client coordination for our 6-person team

## EXPERIENCE

### Data Analyst

Urban Science

Detroit, Michigan

May 2026 – Present

- Contributing to the creation of data-driven deliverables, with an emphasis on process automation

### Data Driven Analysis Intern

Urban Science

Detroit, Michigan

May 2025 – May 2026

- Built SQL audit scripts validating ~200 variables across 7 tables, enabling analysis of 1,000+ metrics for 6,000+ dealerships
- Automated cost matrix generation with VBA, Bash, and SQL, reducing processing time by 80% across dealership datasets
- Prototyped a Selenium-based automation for dealer analytics audit, demonstrating a 60% reduction in monthly staffing
- Supported GM clients with deliverables focused on sales performance and market analysis via MDM software (Citrix)

### Engineering Intern

Michigan Department of Transportation

Detroit, Michigan

April 2024 - August 2024

- Implemented 4 Radio Signal Units (RSU) along the M-1 Corridor (Woodward) for Connected Vehicle Deployment
- Proficient in operating equipment to accurately measure properties of aggregates

### Manager

Burton Hollow Swim Club

Livonia, Michigan

May 2019 - August 2025

- Ensured a safe environment in pool and on grounds for 1000+ members with concise communication and leadership
- Managed daily operations for a team of 5 workers, coordinated scheduling between 30+ employees

## ACTIVITIES

### Michigan State Athletics - Cheerleader

November 2024 – May 2026

- Represent MSU at the national level, performing for 70,000+ while balancing travel, training, and academics
- 2025, 2026 All Big Ten Academic. Varsity Letter Qualifier. S Club Member.