

Brendan Adamski

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EDUCATION

Michigan State University, College of Engineering
Bachelor of Science, Computer Science, GPA: 3.63/4.00
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	MKT327, Marketing
CSE482, Big Data Analysis	CSE477, Web Development	CSE232, Intro. to Programming II	ACC230, Accounting
CSE404, Machine Learning	CSE260, Discrete Mathematics	CSE320, Computer Architecture	GBL323, Business Law
CSE300, Ethics in Computing	CSE415, Parallel Programming	CSE335, Object-Oriented Software	MTH314, Matrix Algebra

SKILLS

Languages: Python (Flask, Pandas, PyTorch), SQL, JavaScript (React), C/C++
Frameworks & Tools: React, Flask, Docker, Selenium, REST APIs, Hardhat
Data & Systems: PostgreSQL, ETL Pipelines, Data Modeling, Automation
Cloud & DevOps: AWS (EC2/S3), Firebase, Google Cloud Platform (Docker-based deployment)

PROJECTS

CSE498 CAPSTONE | MSU Federal Credit Union East Lansing, Michigan
Developer, Team Contact 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

Urban Science Detroit, Michigan
Data Driven Analysis Intern May 2025 - Present

- 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
- Support GM clients with custom deliverables focused on sales performance and market analysis via MDM software (Citrix)

Michigan Department of Transportation Detroit, Michigan
Engineering Intern April 2024 - August 2024

- Implemented 4 Radio Signal Units (RSU) along the M-1 Corridor (Woodward) for Connected Vehicle Deployment
- Met with companies involved in MDOT Connected Vehicle programs
- Proficient in operating equipment to accurately measure properties of materials

Burton Hollow Swim Club Livonia, Michigan
Manager 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 East Lansing, Michigan
Spirit Squad - Cheerleading November 2024 – April 2026

- Represent MSU at the national level, performing for 70,000+ while balancing travel, training, and academics
- Collaborate with marketing and operations to align performance with timeline and promotions
- 2025, 2026 All Big Ten Academic. Varsity Letter Qualifier