

# Zander Pierson

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## EDUCATION:

### Michigan State University

*Bachelor of Science in Computational Data Science*

Major: Computational Data Science

GPA: 3.74

Minor: Mathematics

East Lansing, MI

Expected Dec 2028

## TECHNICAL SKILLS:

- **Programming:** Python, Java, C++
- **Data & AI/ML:** SQL, Pandas, NumPy, Rstudio, TensorFlow, PyTorch, Jupyter
- **Certifications:** CompTIA A+
- **Soft Skills:** Outbound sales, teamwork, problem-solving
- **Other:** Linux system administration, Financial Data API's

## PROFESSIONAL EXPERIENCE:

### theCoderSchool

*Code Coach*

Plymouth, MI

January 2023 – **Present**

- Instructs 30+ students weekly in Python, Java, Machine Learning, and Raspberry Pi programming, fostering problem-solving skills and hands-on coding experience in person and online..
- Scaled program enrollment from ~50 to 100+ weekly students by developing engaging curriculum and high-retention teaching methods.
- Designed and led coding camps (Python, Java, Raspberry Pi, and 3D modeling) with 9am–3pm daily sessions serving 30 students per week, integrating real-world software and hardware projects.
- Trained and onboarded new instructors, standardizing methods to ensure consistent student outcomes.
- Created and maintained custom curriculum covering Python fundamentals, web development, and introductory machine learning concepts.

### Student Information Technology Services

*Head of Business Operations (Registered 501(c)(3) Nonprofit)*

Canton, MI

September 2022 - **July 2024**

- Directed procurement of broken computers and technology, scaling donations from 140 to 400+ per quarter
- Conducted 50–100 cold calls daily, managed all outbound efforts to source donated hardware and secure partnerships with buyers, **ensuring a steady pipeline partners for technology redistribution.**
- Oversaw repair and refurbishment operations, coordinating quality control for redistribution partners.

### Skatin' Station

*Business Operations*

Canton, MI

March 2022 – **June 2024**

- Oversaw day-to-day operations, coordinated large-scale community events serving 200+ attendees per session.
- Trained new hires, managed facility logistics, enhanced customer experience, optimized staff efficiency and collaboration

### Lightning Robotics

*Vision Systems Developer*

Canton, MI

September 2022 - **June 2024**

- Engineered vision processing algorithms using Python, OpenCV, and NumPy to detect and track competition objects and opponent robots in real-time.
- Collaborated with a nationally recognized robotics team, dedicating 10+ hours after school hours per week to developing and testing autonomous vision systems.
- Competed in FIRST Robotics (Team 862) for 2 years, contributing to a top-5 finish in Michigan and ranking 55th out of 615 teams worldwide in 2024.

## PROJECTS:

### Predictive Song Genre Classification (Python)

- Developed a machine learning model to classify music genres using song audio features.

### Financial consultant using data api (Vibe coding, Vapi AI)

- Developed a financial consulting tool that analyzes company data via API, assesses strategic adjustments based on stock price trends, and generates a graph highlighting key performance peaks.