Troy Williams

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SUMMARY

Ambitious and poised Software Professional with a background in Java, C++, Python, and mobile application development. Specialties include: Object-Oriented Programming, Backend Development, Problem Solving, and Debugging.

EDUCATION

Michigan State University

East Lansing, Michigan

Bachelor's of Science in Computer Science

| Aug 2025

 Related Coursework: Algorithm Engineering, Software Engineering, Object Oriented Software Design, Computer Graphics, and Database Systems.

EXPERIENCES

RPM

Birmingham, Michigan

| May 2025 - Aug 2025

Software Engineering Intern

- Designed and developed an event-driven system to handle 100,000+ daily data records flowing across multiple services.
- Built scalable pipelines using Apache Kafka Streams and Java, ensuring reliable delivery of data records.
- Improved data flow and management for RPM's Transportation Management System, reducing latency of data transfers.

PROJECTS

Automated Vehicle Damage Logger

East Lansing, Michigan

| May 2025

Full-Stack Developer

- Worked on a team of six as a full-stack developer to design and implement an end-to-end **Machine Learning** Vehicle Damage Logging System.
- Developed **backend API** routes to securely handle vehicle reports in a database system hosted by Microsoft Azure.
- Built a multi-page React application for managing employee data, including an analytics dashboard that displays dynamic data
- Reduced drivers' manual workload by replacing manual reporting with photo-based damage reporting in the app.
- Project was awarded the MSU Federal Credit Union Praxis Award for Best Technical Team recognizing the most technically challenging and well-executed system.

Bite Book East Lansing, Michigan

Android Developer

| Apr 2025

- Developed an Android application in Java to monitor and track food waste for college dorms.
- Utilized Firebase with the Android app for backend support enabling user authentication and data storage.
- Reduced weekly grocery waste by 25% lowering weekly grocery spending.

Spartan Hero *C++ Developer*

East Lansing, Michigan

| Jan 2024

- Created a game inspired by Guitar Hero, where players match keys with falling notes that sync with music.
- Developed the game in C++ using **object-oriented** design patterns to structure game components.
- Built as a project to provide an interactive way to relax between regular coursework.

ACTIVITIES AND AWARDS

Detroit MADEPeer Mentor

East Lansing, Michigan

| Aug 2021 – Sep 2023

- Provided support to first-year Metro Detroit students by serving as a mentor to ensure a successful college transition.
- Collaborated with undergraduate students through tutoring to encourage students to become more intentional learners.

SKILLS AND INTEREST

Programming: Java, C++, Python, Web Langs (JS, TS, HTML, CSS), SQL, NoSQL

Tools: Git, Android Studio, Visual Studio Code, Apache Kafka, Postman

Platforms/Frameworks: Windows, MacOS, Firebase, React, Android SDK, OpenGL, Fast API

Interests: Volleyball, Anime, Hiking, Reading