

AIDEN DIXON

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EDUCATION

Michigan State University

Bachelor of Science, Computer Science

East Lansing, Michigan

Aug. 2021 – Dec 2024

- Cumulative GPA: 3.7/4.00
- Clubs: MSU AI Club; Member, Spartan Hackers Club
- Relevant coursework: Object-oriented Software Design, Data Structures & Algorithms, Computer Systems, Web Application Architecture and Development, Database Systems, Computer Organization and Architecture

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML/CSS, C, ARM Assembly

Frameworks: Vue.js, React, Flask, Quarkus, Spring Boot

Development Tools: Git(GitHub, GitLab), Google Cloud, Azure DevOps, Insomnia, Docker

Database Systems: SQL(PostgreSQL, SQLite), Microsoft Access

EXPERIENCE

Software Engineering Intern

General Motors

May 2024 – Present

Warren, Michigan

- Implemented unit, integration, end-to-end, and performance testing for internally built applications that previously had no testing, establishing 100% test coverage and enhancing CICD pipeline reliability and deployment efficiency
- Pitched a hackathon project (referenced below) to executive directors, receiving approval to lead its development. Demonstrated a compelling proof of concept and highlighted its potential value to the business, securing executive buy-in and the necessary resources for full-scale implementation

Software Engineer

LilyPad

Feb 2024 – April 2024

East Lansing, Michigan

- Led the design and implementation of a PostgreSQL database for a social media app for college students, creating various database tables and implementing security mechanisms to support a user base of 50,000 students
- Orchestrated backend development efforts implementing RESTful API endpoints. Designed these endpoints to seamlessly connect the PostgreSQL database with the frontend, ensuring efficient data retrieval and manipulation

Teaching Assistant

Michigan State University

Jan 2024 – April 2024

East Lansing, Michigan

- Served as an Undergraduate Teaching Assistant for CSE 335: Object-oriented Software Design, demonstrating mastery of software system design principles and object-oriented programming concepts in C++ by providing students with insightful guidance and in-depth explanations on course material
- Managed both in-person and online help rooms, providing assistance to over 300 students in understanding key concepts related to the Object-Oriented programming assignments and software system design assignments
- Conducted evaluations and grading of students' code and design submissions, offering constructive feedback to identify areas for enhancement and providing guidance on implementing industry best practices

Software Product Management Intern

General Motors

May 2023 – Aug 2023

Warren, Michigan

- Led a comprehensive data cleansing and alignment project to identify and rectify inconsistencies, duplicates, and errors, in a database used for billing 270,000 customers and accounting for 25% of total sales
- Utilized Azure DevOps to write features to update the database and implementing data integrity constraints and collaborated with product owners and senior developers to create user stories and tasks for the development team
- Received recognition award for demonstrating exceptional commitment to my project by dedicating personal time outside of regular working hours to learn SQL and PostgreSQL in order to improve my performance

PROJECTS

SimplifyIT - AI Jira Ticket Automation tool | Python, JavaScript, Docker, Html/CSS

May 2024 – Present

- Developed a Jira chat bot plugin leveraging the Llama3 Chat model and the Llama code model to automate the creation of Jira tickets for features and defects, as well as to generate testing requirements
- Decreases the time developers take on refining requirements, improving communication and productivity
- Won First Place in the General Motors Employee-wide hackathon and currently developing a production version