

Alex Merlo

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CAREER FOCUS: Software Engineering Intern

As a Junior at Oakland University majoring in computer science, I am actively seeking an internship opportunity to enhance my proficiency as a developer. My experience with programming, problem-solving skills, and ability to work with people makes me a great candidate for any team.

Education:

Bachelor of Science, Computer Science; 3.44 GPA

Sep 2021 - Present

Oakland University, Rochester, MI

Course Work:

- Data Structures and Algorithms
- Intro to C and Unix
- Object Oriented Programming
- Discrete Mathematics

Experience:

Data Analyst CO-OP

May 2024 - Present

Hutchinson, Auburn Hills, MI

- Use QlikSense to create interactive dashboards for the manufacturing plants to track their monthly KPIs
- Managed data loading to enable effective data exploration and analysis
- Utilized Qlik's Data Manager to link databases and Excel sheets to the visualization's

Engineering CO-OP

May 2023 - Jan 2024

Hutchinson, Auburn Hills, MI

- Work with CAD to find key dimensions and identify any problems that would come up with parts
- Create presentations to be presented to OEMs that would be used to inform them of the estimated material used and changes that were made from the original design

Projects:

Bullet Wars

- A 2D platformer game developed in Python using the Pygame library, featuring character classes, enemy AI, and sound effects for various game actions. It includes dynamic level creation, scrolling backgrounds, collisions, and physics for movement.

Frogger Remake

- A 2D game in Python using Pygame that featured multiple cars driving on the road ended the game upon collision with the player.
- It implemented dynamic difficulty with increasing speed and randomly generated roads, with a recorded survival time for each playthrough that would be displayed when the game ended.

Technical Skills:

Programming Languages: Python, Java, C

Technologies: Pygame, JavaFX, VsCode, QlikSense, Github

Skills: Data Structures & Algorithms, Data Visualization, Communication, Excel

Activities:

- OU Competitive Programming - Member
- Computer Building - Sourced parts and assembled a PC