

# Lucas Swierad

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## Education

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**University of Michigan College of Engineering**

**August 2023 - May 2027**

**Degree:** Bachelor of Science in Engineering

**Majors:** Computer Science and Robotics

**Relevant Coursework:** Discrete Math, Data Structures and Algorithms, Intro to Computer Organization, Linear Algebra, Introduction to Logic Design, Probability and Statistics for Engineers

**Smithfield High School**

**August 2019 - June 2023**

**GPA: 4.3      Rank: 8**

**Relevant Coursework:** AP CSP, AP CS, AP Calculus 1

## Work Experience

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**Panera Bread Crew Member**

**May 2024 - August 2024**

- Delivered exceptional customer service and prepared and served food and beverages according to company standards, maintaining cleanliness and food safety protocols.
- Operated POS systems to process orders and handle cash and credit transactions accurately.
- Collaborated with team members to maintain smooth operations during peak hours, including opening and closing duties.

## Technical Skills

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**Languages:** C++, JavaScript, Python, Verilog, HTML/CSS

**Technical:** Excel, SQL, SolidWorks, GIT, Rhinoceros 3D

## Projects

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**3D Maze Solver:**

- Developed a graph search and route tracing system utilizing Breadth-First Search (BFS) and Depth-First Search (DFS).

**Stock Trading**

- Implemented templated containers, inheritance, and interface programming to create a virtual stock trading system using priority queues and streaming algorithms.

**Euchre Game**

- Built a Euchre game playable by humans or a simple AI player, leveraging Abstract Data Types in C++, Derived Classes, Inheritance, and Polymorphism.

**Submersible ROV**

- Designed and built a small underwater ROV, creating CAD models in SolidWorks and machined components to construct the project.

## Honors

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**University Honors**

**January 2024**

- Awarded to students who earn above a 3.5 GPA.

**Dean's List**

**January 2024**

- Awarded to students who earn above a 3.5 GPA.

## Activities

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**Michigan Data Science Team:**

**January 2025 - Current**

- Developing a machine learning model to predict flight prices using historical data, providing valuable insights into the factors influencing ticket costs using ML (Tabular) and Streamlit