

# Alex Wunderlin

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## SUMMARY

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B.S. Software Engineering student at MSOE with experience developing and modifying applications using Java and object-oriented design principles. Hands-on background in building software projects, implementing custom file parsers, and developing reusable application components.

## EDUCATION

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**B.S. Software Engineering** | Milwaukee School of Engineering | GPA: 3.92 | Est. Graduation : May 2027

**H.S. Diploma** | Preble High School | Green Bay, WI | GPA: 3.94 | June 2023

## WORK HISTORY

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**Automation Engineer Apprentice** | Krueger International | July 2022 – December 2023

- Troubleshoot and maintained automated robotic systems to minimize downtime and maintain production flow
- Programmed and modified robot control logic to optimize machine performance
- Assisted with mechanical and electrical integration tasks on manufacturing equipment
- Applied structured problem-solving techniques to improve operational efficiency

**Parks Maintenance LTE** | Brown County Parks | June 2024 – August 2024

- Performed a variety of tasks related to park maintenance
- Fixed and improved a firewood vending machine using my automation skills

## Projects

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### 3D Program:

- Developed an interactive program that renders and manipulates 3D coordinate data within a 2D display
- Implemented mathematical transformations to project 3D coordinates onto a 2D plane
- Added interactive controls to adjust view orientation and movement
- Structured the project to be modular and reusable, forming a foundation for future development

### The Trials:

- Designed and developed a Java application using JavaFX and object-oriented programming
- Built a custom file parser that reads structured .txt data and converts it into application content
- Implemented modular components and observer-based logic systems
- Modified and extended application features through iterative development

## Technical Skills

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**Programming Languages:** Java, JavaScript, Python, C++, C, Lua

**Web Technologies:** CSS, HTML, Web Application Development

**Databases:** SQL

**Software Development:** Object-Oriented Programming, Design Patterns, Debugging, Agile software development, Git

**Frameworks & Libraries:** JavaFX, React

## LEADERSHIP | CO-CURRICULAR INVOLVEMENT

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**Chair** | MAGE | September 2023 – Present

- Host, organize, and promote games of Twilight Imperium, a three to eight player board game of galactic conquest.