

# Luke Malcom

Clearance: CUI, Secret (DOD)

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## Education

### University of Missouri, Kansas City

Expected graduation date: May. 2026

B.S. in Computer Science and Technology | **GPA: 3.3**

Relevant Courses: Computer Architecture and Organization, Algorithms and Data Structures I and II (C++), and Web development.

## Experience

### Vertec.io

Jun. 2023 - Present

#### Software Engineering Intern

*Rust, Leptos, Tokio, Bevy*

- Developed Production code for a Revolutionary 3d printing system
- Used a rust game engine as a backend to Rust based front end system called leptos
- I created a driver system for a FANUC robot arm to handle the handshake packets and send commands
- Implemented a state system for emergency shutoff and start stop and pause commands

### Missouri Institute for Defense and Energy

Jun. 2023 - Present

#### Researcher

*C#, Unity, Git, GitHub*

- Developed AFSIM plugins and scenarios for War gaming
- Maintained legacy C# code .NET that is utilized for war-gaming optimization simulations.
- Developed a GUI application for simulation with Python(Tkinter) for streamlined user interface.
- Implemented optimized targeting algorithm to prevent adversaries from landing in protected zones with C#.
- Modeled environments in simulation utilizing mathematical equations for contracted client.

### Gail's Powersports

Jun. 2022 - Sep. 2023

#### SEO Lead

- Maintained Gail's google search console for a front-page ranking.
- Managed Gail's Google My Business account and created 15% more traffic in 2 months.
- Administered Gail's website to add, remove and edit pages for promotions and changes in business.
- Identified bugs in website and consulted with host company to fix them, improving interface.

### Valvoline

Sep. 2021 - Jun. 2022

#### Assistant Manager

- Led a team of 2 to 5 people and ensured team environment was positive as well as customer satisfaction was met.
- Ensured company standards were met for employee safety and protecting consumer assets/vehicles.
- Responsible for scheduling, opening, closing and cash register reports were on time to ensure company satisfaction.

## Skills

- |   |                                |
|---|--------------------------------|
| • Python, MatLAB                        | • Sales and Marketing          |
| • This whole resume is written in LaTeX | • Management                   |
| • C++ and C#                            | • Leadership and Collaboration |
| • Windows, Github                       | • AFSIM                        |

### Languages:

Python, C++, C#, Rust

### Technologies & Tools:

Git/Github, Unity