

# Tyler Guest

Computer Science Major / Software Developer  
Davison, MI | [tguest@umich.edu](mailto:tguest@umich.edu) | [github.com/tylerguest](https://github.com/tylerguest)

## Technical Skills

**Languages:** C/C++, Python, HTML/CSS, JavaScript  
**Developer Tools:** Visual Studio Code, Visual Studio Community, Cursor  
**Technologies/Frameworks:** Windows, Linux, Git, JUCE, React, NextJS

## Projects

**4kVerb** | C++, JUCE, Visual Studio Community | <https://github.com/tylerguest/4kverb>

- Engineered a real-time reverb VST plugin in C++ using the JUCE framework, enabling high-fidelity audio processing.
- Designed an intuitive UI with channel strip-style controls for precise sound shaping.
- Optimized DSP algorithms to enhance performance and ensure minimal latency in real-time processing.

**OneComp** | C++, JUCE, Visual Studio Community | <https://github.com/tylerguest/oneComp>

- Developed a real-time audio compressor VST plugin in C++ with the JUCE framework, providing dynamic range control.
- Implemented a responsive UI for seamless parameter adjustments (Threshold, Input, Gain, Attack, Release, Ratio).
- Refined compression algorithms to improve audio quality while maintaining efficiency and low CPU usage.

## Education

<b>University of Michigan – Flint</b>	<b>Flint, MI</b>
<i>Bachelor of Science in Computer Science</i>	2023 – 2027
<b>GPA:</b> 3.64 / 4.0 (as of 2/22/25)	
<b>Coursework:</b> CSC 175 Problem Solving & Programming I, CSC 175 Problem Solving & Programming II, CSC 137 Fundamentals of Unix, CSC 365 Computer Architecture, CSC 375 Data Structures, MTH 121 Calculus 1, CIS 314 Computer Ethics	

## Experience

<b>We Can Do It Graphics</b>	<b>Flint, MI</b>
<i>Retail Manager / Graphic Design Lead</i>	2020 – 2023
<ul style="list-style-type: none"><li>• Led a 5-person team, overseeing project workflows and optimizing resources to improve operational efficiency.</li><li>• Managed end-to-end production of graphic materials, ensuring high-quality outputs while meeting tight deadlines.</li><li>• Utilized Adobe Photoshop, Illustrator, and wide-format printing tools to design and produce custom graphics for clients.</li><li>• Implemented process improvements that enhanced productivity and reduced turnaround times.</li><li>• Developed client-facing solutions, handling consultations and custom orders to align with branding needs.</li></ul>	
<b>Verizon Wireless Zone</b>	<b>Fenton, MI</b>
<i>Sales Representative</i>	2019 – 2020
<ul style="list-style-type: none"><li>• Delivered personalized technical solutions, helping customers navigate and troubleshoot mobile devices and plans.</li><li>• Exceeded sales KPIs by leveraging product knowledge and consultative sales techniques.</li><li>• Adapted to fast-paced sales environments, balancing customer service with revenue-driven goals.</li></ul>	