Tyler Guest

Computer Science Major / Software Developer
Davison, MI | 810-423-6100 | tylerguest.com | tguest@umich.edu

Technical Skills

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

Projects

4kVerb | C++, JUCE, Visual Studio Community | https://github.com/tylerguest/4kverb
- Developed 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

University of Michigan – Flint   **Flint, MI**
Bachelor of Science in Computer Science   *2023 - 2027*

GPA: 3.89 / 4.0 (as of 5/23/25)
Coursework: MTH 121 Calculus 1, CSC 137 Fundamentals of Unix, CSC 175 Problem Solving & Programming I, CSC 275 Problem Solving & Programming II, CSC 230 Intro to Discrete Structures, CIS 314 Computer Ethics, CSC 365 Computer Architecture, CSC 375 Data Structures, CSC 377 Operating Systems, CSC 384 Database Design

Experience

We Can Do It Graphics   **Flint, MI**
Retail Manager / Graphic Design Lead   *2020 - 2023*
- Led a 5-person team, overseeing project workflows and optimizing resources to improve operational efficiency.
- Managed end-to-end production of graphic materials, ensuring high-quality outputs while meeting tight deadlines.
- Utilized Adobe Photoshop, Illustrator, and wide-format printing tools to design and produce custom graphics for clients.
- Implemented process improvements that enhanced productivity and reduced turnaround times.
- Developed client-facing solutions, handling consultations and custom orders to align with branding needs.

Verizon Wireless Zone   **Fenton, MI**
Sales Representative   *2019 - 2020*
- Delivered personalized technical solutions, helping customers navigate and troubleshoot mobile devices and plans.
- Exceeded sales KPIs by leveraging product knowledge and consultative sales techniques.
- Adapted to fast-paced sales environments, balancing customer service with revenue-driven goals.