Ian Doherty

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EDUCATION

McGill University *Montréal, Quebec, Canada*
M.A. in Music Technology Aug. 2025 – Present
Coursework: Digital Sound Synthesis & Audio Processing, Gestural Control of Sound Synthesis
Extracurriculars & Honors: Member of the [Input Devices & Musical Instruments Laboratory (IDMIL)](#)

University of Illinois at Urbana-Champaign *Champaign, Illinois, U.S.A.*
B.S. in Computer Science + Music Aug. 2022 – May 2025
Coursework: Audio Computing Laboratory, Computation & Music 1-3, Systems Programming, Electroacoustic Music Techniques 1-2
Extracurriculars & Honors: Technology Director at PizzaFM, Recording Engineer at Campus Culture; Graduated with High Honors (Cumulative GPA >3.75), Dean's List x5 (Semester GPA >3.94)

EXPERIENCE

Illinois Public Media *Champaign, Illinois, U.S.A.*
Radio Production Assistant Oct. 2023 – Aug. 2025
- Edited down voice recordings into AM/FM promos using Adobe Audition
- Logged music in GSelector for Illinois Soul, a new audio service directed towards local Black communities

University of Illinois at Urbana-Champaign *Champaign, Illinois, U.S.A.*
Computer Architecture & Systems Programming Course Assistant Jan. 2024 – May 2025
- *Computer Architecture:* Assisted class administrators with course development, including SPIMBot and Prairielearn
- *Systems Programming:* Designed course pre-labs using the PrairieLearn API & participated in course development (CD) discussions, including curriculum design
- *Both:* Held office hours, answered questions on the class forum, and assisted TAs with lab sections

Stonecutter Recording Studios *Chicago, Illinois, U.S.A.*
Assistant Music Engineer May 2024 – Aug. 2024
- Assisted engineers with professional recording sessions in a live studio environment
- Used Pro Tools and plug-in suites to capture and manipulate audio projects
- Coordinated with other interns on artist outreach, studio prep, and general upkeep

PROJECTS

[PedalJUCE](#): JUCE-powered guitar pedal emulation VST May 2025 – Present
Features in-progress:
- GUI workspace for connecting and modifying digital guitar pedals, including their parameters (e.g., tone knobs)
- Diverse collection of pedal modules, including classic guitar effects pedals and new effects made possible via DSP
- Preset system for both pedals and pedal arrangements
- Support for deployment into a Raspberry Pi system for live performance use

[converb~](#): A basic convolution reverb external in Pd Jan. 2025 – May 2025
Features:
- Convolves input signals with a fixed-length impulse response (read using tabread~)
- Uses estimated FFTs from the FFTW3 library to efficiently perform convolution in pseudo real time
- Contains a detailed help file (converb~-help.pd) that explains how to use converb~

Created as part of my undergraduate capstone at the University of Illinois.

SKILLS & INTERESTS

Programming Languages: C, C++, Python, Java, HTML/CSS, some JavaScript
Music Tools & DAWS: Pure Data (Pd), Max/MSP, Ableton Live, Audacity, Adobe Audition, Logic Pro X, some Pro Tools
Programming Libraries: JUCE, Pd external library, FFTW3, NumPy, SciPy, matplotlib, some React