

Will Rinkoff

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Education

Carnegie Mellon University / Pittsburgh PA / August 2019 - Present

Bachelors of Computer Science and Music

Relevant Coursework:

Imperative Computation | Computer Music | Functional Programming | Data Structures and Algorithms | Computer Systems | Theoretical Computer Science | Enterprise Software Engineering | Audiovisual Composition | Experimental Capture

Skills relevant to Artistic Practice

- 4+ years of experimental live coding audio production work using [Tidalcycles](#) (in Haskell), [Supercollider](#), and [Bitwig](#)
 - including 3+ years of both live-streamed and in-person live performances
- 2+ years navigating both enterprise and open source video editing software (Adobe Premier, [Kdenlive](#), [Cinella](#))

Experience

Front-end Developer for [Penrose](#) (Pittsburgh PA, February-July 2020)

- Designed and implemented programming interfaces for visualization tools
- Implemented transpilation from a user's code as input to the SVG specification

Front-end Developer at [Neort.io](#) (Japan (Remote), July-August 2020)

- Proposed and deployed a non-trivial website feature in just over a month, the programming of which was largely solo
- Familiarized myself with a large Vue.js code base quickly with little documentation
- Effectively worked/communicated with developers across both language and timezone barriers

Audio Processing / Machine Learning Intern at [Resonant Cavity](#) (Minneapolis MN, May-August 2019)

- Created tools for deep-learning audio analysis/synthesis inside Python
- Researched and worked with complex vocal-analysis machine learning architectures
- Developed documentation for developed in-house tools

Skills

Programming Languages/Frameworks

Git, HTML/CSS, Javascript, Typescript, Vue, Axios, C, Python, Numpy, Tensorflow, Keras, Haskell, Bash

Applications/Environments

Vim, [Bitwig](#) (digital audio workstation), Max/MSP/Jitter, [Godot](#), Unity, Audacity, Pro Tools, G Suite, Adobe Indesign

Other Skills

- 4+ years experience with debugging Linux systems (daily personal use and some work with servers)
- 4+ years experience navigating obscure open source software and libraries for artistic exploration/personal use