

README.md

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  WEBSITE: maxis.cool      EMAIL: mail@maxis.cool      CV: maxis.cool/cv

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Indie Audio Programmer, 9/19 – Now

*digital signal processing, music production software*

- [Frequency Explorer: a microtonal additive synthesizer](#) `HTML` `CSS` `JavaScript`
- [scalemap: a math-enabled string format for musical tunings](#) `C` `C++` `JavaScript`

## Programmer @ The Recurse Center, 7/19 – 9/19

*a self-directed, community-driven educational retreat for programmers*

- Repitch: a real-time, MIDI-controlled audio harmonizer C++ JUCE

## Research Intern @ Numenta, 12/18 – 4/19

*machine learning, theoretical neuroscience*

- Localization in simulated 1D + 2D environments with simple recurrent networks [Python](#) [PyTorch](#) [Matplotlib](#)

## MS, Astronomy @ The University of Wisconsin–Madison, 6/15 – 8/17

*binary star systems, stellar evolution models, observational astronomy*

- "A Curiously Young Star in an Eclipsing Binary in an Old Open Cluster" IRAF IDL Python

## BS, Physics @ The College of New Jersey, 8/11 – 5/15

*galactic jets, time-domain astrophysics, computational fluid dynamics*

- "Variability in Active Galactic Nuclei from Propagating Relativistic Turbulent Jets" Mathematica C FORTRAN