KYLE LAVIANA

*software development **x** user-centered design*

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EDUCATION

Stanford University
GPA: 3.87/4.00
MA, Music Science and Technology [CCRMA] / 2019
BSc, Symbolic Systems [conc. Interaction Design] / 2018

SOFTWARE PROJECTS

Exocoder / *Integrated Hardware Vocoder / 2018*
  -Using Wi-Fi from an ESP32 microcontroller, I built an STFT in C++ based ChucK and used motion tracking of hands to adjust the formant and filtering of vocal input

Chord Wheel / *Interactive Music Theory Web App / 2019*
  -Built in Javascript, CSS, and HTML with audio from the Web Audio API. Created a strongly timed looping audio sublayer and complex circular SVG interface

Vermont / *Audio-Visual Composition Tool / 2019*
  -Virtual Reality experience built in Unity and C#, taking MIDI input and modifying audio via Chunity

Personal Website / *2019*
  -Experience creating consistent design themes and developing a complex ecosystem of pages managed with Github Pages. Optimized across mobile and browsers, with focusable accessibility implemented in Javascript

SKILLS

Programming
C++ / C# / Java / Javascript / Python / Matlab / Arduino
Design
Rapid Prototyping / Lateral Thinking / CSS / Adobe CC
Misc. Coursework
Signal Processing / Statistical Methods / 3D Modeling

see more @ linkedin.com/in/kyle-laviana