

# KYLE LAVIANA

software development x user-centered design

<https://laviana.me>

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## EDUCATION

### Stanford University

MA, Music Science and Technology [CCRMA] / 2019

BSc, Symbolic Systems [conc. HCI Design] / 2018

GPA: 3.9/4.0

## SOFTWARE PROJECTS

### Chord Wheel / Interactive Music Theory Web App

-Built in Javascript, jQuery, CSS, and HTML with audio from the Web Audio API. Created a looping audio sublayer and complex circular SVG interface

### Personal Website

-Experience creating consistent design themes and developing a complex ecosystem of pages managed with Git. Optimized across mobile and browsers, with focusable accessibility, fast load time, and high SEO

### Vermont / Audio-Visual Composition Tool

-Virtual Reality experience built in Unity and C#, taking MIDI input and modifying audio via Chunity API

### Exocoder / Embedded Hardware Vocoder

-Using Wi-Fi from an ESP32 microcontroller, I built an STFT in C++ based ChuckK and used motion tracking of hands to adjust the formant and filtering of vocal input

## SKILLS

### Programming

C++ / C# / Java / Python / Data Structures / OOP / Big O

### Web

Javascript / HTML / CSS / jQuery / Git VC / Web Accesibility

### Design

Rapid Prototyping / Lateral Thinking / Unity / CAD / Sound

see more @ [linkedin.com/in/kyle-laviana](https://www.linkedin.com/in/kyle-laviana)