

# Robert A. Strong

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## WORK EXPERIENCE

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### Classical Guitar Teacher | Self-Employed 2022 - Current

- Teach general music, classical guitar, and music theory to musicians of various backgrounds
- Organize schedule and individual student resources
- Deconstruct complex concepts into understandable components
- Tailor lesson structure & language to students' individual learning styles
- Build trust through consistent, high-quality work

### Barista | Red Cat Coffee House Sept. 2025 - Current

- Create coffee beverages and serve customers in a front-facing role
- Work with a team to complete tasks in a fast-paced environment

### WordPress Designer/Developer Intern | Circlebox Summer 2023

- Independently designed and developed an original WordPress theme for the company's blog with PHP, HTML & CSS — [blog.circlebox.com](https://blog.circlebox.com)

## PROJECTS

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### Generative Music Web Application — [cpu-gregorian-chant.com](https://cpu-gregorian-chant.com) 2024

- Created a web application that generates medieval Gregorian chant music, rendering audio and visual components with Python, JavaScript, HTML & CSS
- Programmed music generation process in Python with Markov chains
- Compiled datasets from medieval music sources for use by the generation algorithm
- Evaluated outputs to assess quality of data and program
- Designed an 8-bit interface based on medieval manuscripts
- Animated & synchronized original character designs and interactive text box
- Tested features throughout development to verify continued functionality
- Developed to support cross-browser & mobile functionality
- Wrote documentation on the development process — [github.com/robbyae/cpu-gregorian-chant](https://github.com/robbyae/cpu-gregorian-chant)

### Music YouTube Channel — [youtube.com/@GuitarEtConcertina](https://youtube.com/@GuitarEtConcertina) Current

- Perform and record classical Guitar & Concertina
- Edit audio recordings in Audacity
- Reached 158,000 views and 1,200 subscribers

### Data Analysis of Music YouTube Channel Data — [github.com/robbyae/youtube-data-analysis](https://github.com/robbyae/youtube-data-analysis) 2025

- Wrote a program using Python, Jupyter, pandas, matplotlib, Seaborn to automatically calculate and graph data of classical music videos by composer
- Manipulated video titles to isolate, organize, and process relevant information
- Designed for compatibility with similar music channels

## EDUCATION

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### University of Colorado | Boulder, CO Class of 2024

BS in Creative Technology & Design, College of Engineering