

Kurt Gray

Software Engineer

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kurtgray.dev

Technical Skills

Javascript, Typescript

HTML, CSS, React

GraphQL/Apollo, SQL, MongoDB

Node.js, REST APIs, Express, Passport

Git, Agile Methodologies

Web Audio, UI/UX, Figma

Soft Skills

Effective and Clear Communication,

Aptitude for Collaboration,

Growth-Mindset,

Innovative Problem-Solving,

Leadership, Accountability,

Work Ethic

Education

American Band College of Sam

Houston State University

Master of Music

Instrumental Conducting

California State University

Northridge

Teaching Credential

Secondary Education

University of California

Los Angeles

Bachelor of Arts

Music Education

Interests

Music & audio, bicycles, downhill skiing & backcountry touring, gear in general, craft brews, coffee, dogs!

I'm a highly motivated developer eager to implement clean, readable, efficient, and maintainable code for frontend, backend, or full stack projects. MERN stack skills are my forte, though I'm adaptable to other areas of front end or back end development. I'm an established professional who is also an eager learner. It's my goal to provide value immediately upon learning about my role, in order to make better products for my team and company, and contribute meaningfully as soon as possible.

Projects

Personal Website with Blog Section

A MERN stack multi-user blogging platform.

React, React Query, Node.js, Express, MongoDB, Passport

- Developed a multi-user platform that allows users to create and manage blog posts and their comments. Admin privileges are available to manage all content.
- Architected back end schema and implemented a REST API using Node, Express, and MongoDB.
- Implemented JWT auth and Google OAuth2 via Passport to allow users to create their own accounts or login with their Google accounts.
- Includes rich text editing using TinyMCE, image upload, upvote, downvote, like, edit, delete posts and comments, publish and unpublish posts, and a full admin interface.

Beat Boss

A programmable metronome app for musical practice applications.

React, Web Audio API, Tone.js

- Using the Web Audio API and Tone.js library, implemented a metronome for standard and programmable time-keeping functions.
- Implemented an effective state management system using React Hooks to meet the complex needs of interacting with real-time audio.
- Metronome features multiple sound libraries with 35 customizable sounds for beat subdivision with individual and master gain controls. Implemented visual component synced with audio.
- Programmable mode features user-customizable segments of tempo, time signature, iteration count, sounds, and gain levels. These programs are serialized to JSON for local storage and sharing.
- Modeled after the widely used "Dr. Beat" electronic metronome, with improved programming capabilities and user interface. Features in progress include program sharing, tempo transitions, and a 'cut-time' mode for advancing ensembles.

And more... *Weather App, Shopping Cart, Memory Game*

Work Experience

Instrumental Music Director,

Moorpark Unified School District

2009-2022

- Designed and implemented State Standard aligned curricula in the area of wind, percussion, and string instruments
- Served for 5 years on MUSD District Arts Council, influencing district level budgets, policies, and arts staff development.
- Directed, evaluated, and coordinated an instructional staff of seven instrumental specialists
- Led a parent support organization with \$50,000 annual budget