

Tim Purdum

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Lifelong leader, motivated and self-reliant. Uses interpersonal skills honed in the education field to create solutions that work for anyone, such as the Unison.School web portal, currently in hundreds of schools across the country.

Websites / Web Apps

unison.school - Complete web app solution for music educators and students.

- Touch-based rhythm and melodic assessments, using WebAudio API and Asp.Net Core.
- Grades sync to teacher's grade book.
- Entity framework Sql Server database with student, teacher, school, and musical models.
- Sync with Google APIs - Calendar & Drive

cs.cedarrivermusic.com/repertoire - Searchable song database with playable scores

timpurdum.com - Personal blog for music teachers

cedarrivertech.com - Business website

- Wordpress
- Custom PHP, Javascript, CSS

Mobile Apps

Creative Sequence Music Teacher (Archived, replaced with Unison.School)

- iOS (Swift), Android (Java), web (PHP) with PHP/MySQL backend
- Drop down menus with state and national standards
- Search lessons by key words
- Planning calendar with custom class rotations
- Sync across multiple devices

Classroom Orff Xylophone

- Xamarin.Forms
- iOS, Android, Mac, Windows
- Practice anywhere, plan compositions
- Set up in Pentatonic, Hexatonic, or Diatonic (with F# and Bb)
- Choose from three xylophone and two glockenspiel ranges
- Simple 4-track recorder for saving ideas

Staff Music Player

- iOS (Swift)
- Touch noteheads on the staff to play music
- Play recorder, xylophone, or ukulele sound
- Blends with live instruments
- Useful as an adaptive tool for students with special needs

GitHub Projects

github.com/TyrinCRM/Sudoku - Puzzle-building algorithm, game (Asp.Net Core)

github.com/TyrinCRM/GradeBook - Simple web-based grade book for teachers, reusable for other ed-tech solutions.

- Razor Pages, Asp.Net Core, Entity Frameworks
- Demo at cedarrivertech.com/gradebook

github.com/TyrinCRM/RichTextEditor - Cross-platform rich text editing frame with formatting buttons and HTML import/export.

- Xamarin, custom renderers

Experience

Cedar River Tech, LLC (2016-Present)

- Solo entrepreneur, built a full-stack, multi-featured web portal for music teachers and students.
- Independently developed skills for Asp.Net Core, front-end UI, Sql Server, and Azure hosting.
- Managed sales, support, marketing, and accounting for hundreds of customers.

Teaching Experience

K-12 Music Teacher (1998-2017)

- Taught thousands of children, managing large groups, leading classes and concerts.
- Volunteered to design school schedules (for the whole school) and maintain the school website.
- Collaborated on multiple large-scale curriculum systems, including for school districts and the state of Iowa.

Music Education University Instructor & Clinician (2006-Present)

- Trained hundreds of music teachers in creative process, curriculum development, and technology integration.

Education

HTML5 Fundamentals (Pluralsight, 2017-Present)

- Learning more in-depth front-end techniques to round out my full-stack knowledge.

CS50: HarvardX Introduction to Computer Science (EdX, 2016-2017)

- Filled in the gaps in my self-taught approach with fundamentals of Computer Science.
- Started using GitHub to share personal projects.

Master of Music in Composition (Longy School of Music, Cambridge, MA, 2001)

- Explored 20th Century musical techniques, including computer-generated music with *C-Sound* and *Max* software.

Bachelor of Music Education (Baldwin-Wallace College, Berea, OH, 1998)

- Created a movie-scene soundtrack using music sequencing program *Cubase*.