Selection of current software projects by Judd Niemann

Project	Description	Target Platform(s)	Languages / Technologies used
Ferocious	High Quality Audio Sample Rate and Format converter	Windows Desktop	• C++ 11 • C • Qt • CSS
Ferocious Online	Online High Quality Audio format converter	Web Browsers	• Node.js • Express • Bootstrap • C++ • C
ReSampler	High Quality Audio Sample Rate converter (cmdline)	Windows Desktop	• C++ 11 • C
JuddChess	64-bit Chess Engine	Windows Desktop	• C++ 11
juddperft	move generation engine from JuddChess	Windows Desktop	• C++ 11 (multithreading / atomics / mutexes etc)
FIRCalculator	Digital Filter design tool for creating Finite Impulse Response Filters (FIRs) using the Parks-McLellan / Remez exchange Algorithm	Desktop	• Python 3.5
noteFrequencies	Simple tools for displaying and previewing musical note frequencies with adjustable equally-tempered tuning	Web Browsers	• React • Node.js • Web Audio API
Spirograph	Simple graphics app to generate mesmerizing animated "spirograph" patterns. (A demonstration of the speed and power of React rendering)	Web Browsers	• React • Node.js • Bootstrap • html5 <canvas>

react-chessdiagram	react component for rendering chess positions	Web Browsers	• React • svg
react-bars	react component for rendering "Skill bar" bargraphs	Web Browsers	• React • Javascript • JSON • CSS
The Partner Institute	Website	Web Browsers - Desktop / Mobile	• Wordpress • PHP • CSS
BugBlatter	Arcade - style video game written in React which uses the html5	Web Browsers - Mobiles / Tablets	• React • Node.js • html5 <canvas> • CSS