Gabriel McDonald

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SKILLS	Ruby HTML AWS	Clojure CSS Postgres	Java Flux Rspec	Rails SQL Lisp	JavaScript Haskell Docker	React.js Git Nginx	Python jQuery TypeScript
EMPLOYMENT		 American Physical Society Worked both client-side and server-side maintaining, updating and expanding a large suite of web applications (predominantly in Clojure, Ruby on Rails and Java) for managing the country's most prestigious physics journals. Built RESTful endpoints for a new API-based communication system with a third-party vendor for one of the APS journals, enabling manuscript .zip file retrieval, notification posting, etc. and secured using JWT. Introduced shareable Clojure components via a private Maven repository and a library for shareable React/TypeScript components using Storybook. Upgraded the testing suites for all of the company's Java apps to Junit 5. 					
EDUCATION	ON	Syracuse University - Syracuse, NY M.A. in Philosophy University of Notre Dame - Notre Dame, IN B.A. cum laude in Philosophy					(2013 - 2017) (2008 - 2012)

PROJECTS StoneCloud - Full stack music app inspired by SoundCloud

Live | GitHub

- Ruby on Rails, Postgres, AWS, React/Redux
- Generates custom waveforms using the wavesurfer JavaScript library which track playback progress, sound frequency, and allow track navigation.
- Synchronizes play/pause buttons, waveforms and progress bar by appending the track ID to the HTML element IDs.
- Protects track and profile editing/deletion with back end user authentication built with the BCrypt gem for Rails.

Droog - Audio visualizer - *JavaScript, HTML5, CSS*3

Live | GitHub

- Extracts frequency data using the HTML5 web audio API and passes it to the D3 Javascript library to dynamically render visual representations of that data.
- Audio analyzer can receive input from either an uploaded audio file or user microphone input via HTML5's MediaDevices interface.

ShallowBlue - Chess program for text-based terminals - Python, Haskell GitHub

- Intuitive, user-friendly interface rendered using the C ncurses library.
- Supports special moves such as castling and pawn capture en passant.