Gabriel **McDonald**

27A St. Mark's Ave. #3 • Brooklyn, NY • 11217
CELL (646) 864-6911 • **EMAIL** gabrielmcdonald1@gmail.com   Portfolio   GitHub   LinkedIn

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SKILLS

Ruby	Clojure	Java	Rails	JavaScript	jQuery	HTML
CSS	Flux	SQL	Git	Haskell	React.js	AWS
Python	Lisp	Perl	Rspec	Postgres	Docker	Nginx

EMPLOYMENT

American Physical Society **(2017 -)**

Software Developer

- Worked both client-side and server-side maintaining, updating and expanding a large suite of web applications (predominantly in Clojure/ClojureScript, Ruby on Rails and Java) for managing the country's most prestigious physics journals.
- Introduced shareable Clojure projects which could be imported by separate apps via a private Maven repository.
- Upgraded the testing suites for all of the company's Java apps to Junit 5.

EDUCATION

App Academy - New York, NY **(2017)**

Full Stack Web Development Course

Syracuse University - Syracuse, NY **(2013 - 2017)**

M.A. in Philosophy

University of Notre Dame - Notre Dame, IN **(2008 - 2012)**

B.A. cum laude in Philosophy

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, CSS3*   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.*