

Gabriel McDonald

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[Portfolio](#)



[GitHub](#)



[LinkedIn](#)

SKILLS

Python	Ruby	JavaScript	TypeScript	Clojure	Java	Haskell
CSS	HTML	SQL	Django	Rails	React.js	Angular
Flux	AWS	Postgres	Kubernetes	Docker	Nginx	

EMPLOYMENT

YCharts

Engineering Team Lead

(2022 -)

- Built out and led an application team, responsible for developing the company's single page applications. Manager of four team members.

Software Engineer

(2020 - 2022)

- Worked full stack on an investment research SaaS web application with a Python/Django backend and TypeScript/Angular frontend.
- Introduced a new financial security type (separately managed accounts) to the platform, which required syncing daily updated data with that provided by an external FTP server.
- Enhanced the load step of our ETL pipeline for importing security attribute data, so that the importers ran asynchronously in parallel rather than serially, reducing completion time by >75%.

American Physical Society

Software Developer

(2017 - 2020)

- Worked full stack on a large suite of web applications (predominantly in Clojure/ClojureScript, Ruby on Rails and Java) for managing editorial workflow within a scientific journal publishing company.
- Created a Lerna monorepo for application-independent development within Storybook of TypeScript/React components for a site-wide UI catalog.
- Introduced shareable Clojure projects which could be imported by separate apps via a private Maven repository.

EDUCATION

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

Droog - Audio visualizer - *JavaScript, HTML5, CSS3, D3*

[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.