

GRAHAM JOHNSON

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TECHNICAL SKILLS

JavaScript, React Redux, Ruby on Rails, NodeJS, Express, Python, SQL, Git, Web Audio, HTML5 CSS3

PROJECTS

SCENIUS

[Live](#) [Git](#)

Lyrics annotation app built with React Redux, Rails, Webpack, Heroku, PostgreSQL, NokoGiri/WebURI.

- Constructed linked backend/frontend user auth system, using cookies to persist login across sessions.
- CRUD tracks, artists, albums, and annotations with RESTful API.
- Integrated custom algorithms with Web API to build a high-grain text annotation system.
- Implemented backend Nokogiri web scrapers to auto-populate artist objects with Wikipedia metadata.
- Coordinated custom API controllers with async frontend latency to provide scalable live search previews.

DISSECT

[Live](#) [Git](#)

Multitrack audio player/mixer built with NodeJS, Web Audio API, Wavesurfer & Pizzicato libraries.

- Coordinated Node modules to allow wide array of audio effects incl. panning, toggling, reverb, & distortion.
- Surveyed user flow to build a careful architecture of Web Audio API context creation & dissolution.

EXPERIENCE

Are.na Consultant (New York, 2017-18), API Project (2019)

- Researched future & history of the web: Xerox PARC, Ted Nelson's hypertext, information management.
- Currently building web app synchronizing the Are.na & Wayback API to audit link archival.

CUIT Network Technician (New York, 2015-17)

- Troubleshoot network outages with Nagios and Netmon software tools.
- Sole technician on night and weekend shifts, assuming responsibility for outages and access.
- Built out technical documentation in departmental wikia.

Consortia Strategist & Researcher (New York, 2017-18)

- Principal researcher for clients including Harvard Graduate School of Design.
- Built out research decks, traveled btwn Cambridge and New York to give client presentations.

Guggenheim Foundation Architecture & Digital Initiatives Researcher (NY, 2017)

- Primary departmental researcher; briefed head curator in weekly 3hr+ presentations.

EDUCATION

App Academy, 2019, New York, NY

Top international software program. 2% acceptance rate, 1500+ hrs fullstack experience, curricular emphasis on React, Rails, and other cutting-edge architectures.

Columbia University, 2013-17, New York, NY

American Studies, Dean's List 2014-16. Courses in system design, information theory, intro programming.

NONTECHNICAL

Verbal, written, & presentation strengths. English/Spanish bilingual.