Derek Schear

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SKILLS

React, Redux, Ruby, Rails, Javascript, HTML, CSS, SQL

PROJECTS

AudioCloud (Rails, React, Redux, AWS)   live | github

A single page music discovery application inspired by SoundCloud and developed using Rails, React and Redux.
- Leveraged React's Component Lifecycle Methods and local state to provide a fully functional continuous play music bar.
- Implemented a multi-step user authentication process using advanced logic in both React frontend and Rails backend, extending functionality of form to account for both new and existing user accounts.
- Crafted Redux store to carefully manage data accessibility, eliminating n+1 queries to databases including PostgreSQL and AWS, resulting in faster and less taxing searches.
- Designed audio upload form to maintain uninfringed user experience, directing files to AWS and upon success redirecting user to updated track index.

viib (JavaScript, Web Audio API, D3.js)   live | github

An audio visual experience developed using JavaScript, Web Audio API and D3.js.
- Created engaging UI/ UX using vanilla CSS, enhancing user's listening experience by visually representing the frequency spectrum.
- Decreased graphic rendering lag through the use of animation frames, resulting in a responsive visual experience.
- Extracted audio frequencies from locally uploaded source files through the use of Web Audio API to generate the information represented on the screen.
- Integrated data into DOM for manipulation via D3 for intriguing, real-time and interactive visuals.

EXPERIENCE

Business Selection & Conflicts Analyst

Bank of America Merrill Lynch   Oct 2016 - Oct 2018
- Entrusted with maintaining and the investment bank's proprietary COPS database housing material non-public information (MNPI) related to all current and prospective investment banking transactions totaling over $5B in fees generated.
- Responsible for conflicts clearance on all Equity and Debt Capital Markets deals, and supported Managing Directors on M&A and Acquisition Financing transactions.
- Promoted ongoing enhancements of COPS database to minimize redundancies and maximize efficiency.
- Cultivated relationships with senior bankers to ensure proactive and efficient communication of critical deal specific information.
- Reported biweekly to senior officials including the Global Head of Corporate and Investment Banking with business critical data via encrypted confidential email.

Finance, Operations and Merchant Banking Analyst

Roundtable Investment Partners (now Truvvo Partners)   Jun 2016 - Oct 2016
- Worked with principals in a boutique environment, maintaining investment database across multiple software platforms for 55 clients totaling $3.5B AUA, focused on data integrity and risk management.
- Produced proprietary excel tool to generate client-specific composite benchmarks based on varying asset allocations and benchmarks, used daily for performance measurement and monthly for performance reporting.

EDUCATION

Full-Stack Software Engineering - *App Academy | Fall 2019*
BS Finance, minors in Psychology and Entertainment Business - *NYU Stern School of Business | 2012 - 2015*