

# JAEHYUK LEE

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PORTFOLIO

GITHUB

LINKEDIN

## SKILLS

JavaScript, React, Redux, Ruby on Rails, SQL, PostgreSQL, Node.js, HTML5, CSS3, AWS, Git, jQuery, MongoDB, Express

## PROJECTS

**SoriCloud** | Rails | React | Redux | Postgres | HTML5 | CSS3 | jQuery | webpack | AWS S3

[live](#) | [github](#)

*A single-page web application for streaming music and uploading your own - a SoundCloud clone*

- Built a site-wide audio player UI by leveraging Redux patterns to maintain reference to a “currently playing” slice of front-end UI state, allowing for continuous and non-overlapping audio playback throughout app navigation.
- Created a modular SeekBar subcomponent and used Redux actions to sync the main audio player with waveforms and play-pause toggle buttons while maintaining DRY code.
- Designed RESTful APIs and optimized the backend by eager loading Active Record associations to extract data from multiple tables in a single query rather than N+1 queries, reducing server load and allowing for scale.
- Integrated AWS S3 with Rails backend for cloud storage of media uploads.
- Established user authentication through front and backend tools such as password hashing with BCrypt and customized React-Router higher-order components, allowing users to make changes to only their own media and comments.

**Museic** | React | Redux | Node | Express | MongoDB | HTML5 | CSS3 | AWS S3 | Tone.js

[live](#) | [github](#)

*A social web application with a unique UI to record and share short melodies*

- Created an intuitive piano keys interface that produces audio with Web Audio API and allows for user input to be saved directly into the database as an array of music notes to eliminate the need for audio file data storage.
- Built a custom visualization component that adds representations of user input notes to the DOM in real-time by using simple math and inline styling, enhancing user engagement and interactivity.
- Implemented user authentication by encrypting user details via the JSON Webtoken library to be sent over HTTP using Axios to be decrypted via the JWT-Decode library on the front end.
- Facilitated collaboration by managing group workflow using Git, and demonstrated the ability to work on others’ code.

## EXPERIENCE

### Project Manager

**U-Mind Club, Inc.** | E-Commerce Platform | Los Angeles, CA

Jan 2017 - Aug 2019

- Supervised the collaboration between an external software engineering team and internal developers to successfully integrate their machine learning product recommendation engine into U-Mind’s platform, demonstrating excellent communication and interpersonal skills.
- Organized the agile development of seller central UI by surveying customer feedback, resulting in a 10% weekly increase in the number of products listed by individual sellers throughout most of the quarter through data-driven approach.
- Negotiated a lower per unit price of the top-selling product from its supplier, saving the company 5% on purchases.

### Data Analyst

**North Carolina Joint Underwriting Association** | Property Insurance | Raleigh, NC

Jul 2014 - Jun 2016

- Assembled technical procedures for a year-long data scrubbing project in preparation for the transition from an MS-DOS database management system to new software to increase employee efficiency and customer support quality.

## EDUCATION

**Software Engineering** - App Academy | San Francisco, CA

Fall 2019

- Topics: TDD, algorithms, OOP, REST, scale, computer science concepts, software design, and programming best practices.

**Bachelor of Science Education** - Duke University | Durham, NC

Aug 2008 - May 2012

- Bachelor of Science in Psychology, Minor in Statistical Science, Certificate in Markets and Management
- Honors: Graduation with Distinction (May 2012), Dean’s List (Fall 2010)
- Completed an honors thesis in the form of an empirical research article and defended it in front of a faculty committee.
- Curriculum Highlights: Linear algebra, multivariable calculus, statistics, probability, physics