

# MADI LIPPMANN

Software Engineer with a background in Classical Music and Arts Administration

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## SKILLS

**LANGUAGES:** Python, JavaScript, SQL, HTML, CSS  
**LIBRARIES / FRAMEWORKS:** React.js, Redux, Node.js, Express.js, Flask, SQLAlchemy, Sequelize  
**TOOLS:** Git / Github, PostgreSQL, Postman, Docker, AWS S3

## PROJECTS

**SoundUp - Python | Flask | React | Redux | PostgreSQL | SQLAlchemy | Docker** [live](#) | [github](#)

*Inspired by OpenTable, SoundUp is a reservation platform where users can hire musicians for gigs and events.*

- Employed **Docker** to containerize application and simplify application deployment through Github Actions
- Designed uni-directional frontend state management with **Redux** to maintain the accuracy and display of frontend user data
- Integrated **React Media Player** web components to enable media playback for users to hear musician samples

**HOLOGRAM - Python | Flask | ReactJS | Redux | PostgreSQL | SQLAlchemy | AWS S3 | Docker** [live](#) | [github](#)

*HOLOGRAM is a social-media platform where users can share and comment on images, as well as communicate via direct messages.*

- Developed a seamless, real-time messaging system for users through the integration of **Websockets**
- Reduced load-times of application through engineering an infinite scroll feature to paginate backend **API** calls
- Integrated animated loading bars to smooth **UX / UI** by minimizing the perceived data rendering time
- Constructed search feature leveraging fuzzy search to query and return all closely-related data from **PostgreSQL** database

**Noted - React | Redux | Express | Node | PostgreSQL | Sequelize** [live](#) | [github](#)

*Noted is a note-taking and organizational application inspired by the popular note-taking application, Evernote*

- Designed custom **React** component to enable a toggleable autosave feature that ensures persistence of all new user data
- Expanded the breadth of user note-taking functionality by leveraging **CKEditor** library to allow for rich-text editing of notes
- Engineered multiple search bars to optimize organization of user notes, notebooks, and tags through querying **Redux** store

## EXPERIENCE

**Operations Associate and Assistant Music Librarian - Classical Tahoe | Incline Village, NV** 07/2021 - Present

- Collaborated with Executive Director, Operations Lead, and Music Librarian to produce and facilitate concerts, rehearsals, and special events during 3-week festival featuring musicians from globally recognized orchestras
- Managed personnel and operational transitions for live, PBS-broadcasted concerts with viewership of 26,000+ to minimize stage-change times and deliver seamless performances
- Meticulously prepared orchestra scores and parts to meet MOLA guidelines and streamline rehearsal process

**Artist Services Manager - Festival Napa Valley | Napa, CA** 05/2019 - 07/2021

- Cooperated with artistic administration and operations team to conduct simultaneous orchestral and opera academies, successfully producing 30+ concerts and performances in demanding and fast-paced environment
- Spearheaded food-waste reduction effort by partnering with community members to ensure all excess meals were donated to the local homeless shelter, nearly eliminating all academy food waste
- Successfully oversaw the allocation of a \$55K budget through strategic planning and prioritization of needs for receptions, events, meals, and supplies
- Bolstered patron and musician satisfaction through the production of receptions and events servicing up to 170 people

## EDUCATION

**Software Engineering - App Academy | 11/2021 - 05/2022**

**Master of Music, Music Composition - Carnegie Mellon University | 4.12 GPA | 08/2018 - 05/2020**

- *Relevant Coursework:* CS 15-112 - Fundamentals of Programming and Computer Science | Fall 2020

**Bachelor of Music, Vocal Performance - University of California, Santa Cruz | Summa Cum Laude | 3.98 GPA | 09/2013 - 12/2017**