

# PAUL-EIRIK MELHUS

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## SUMMARY

A full stack software engineer with a background in music and customer service. A multi-lingual creative with a passion for computer science, nurturing human connections, and contributing to worthwhile endeavors efficiently and effectively.

## SKILLS

React, Redux, JavaScript, Python, HTML5, CSS, SQL, SQLite3, PostgreSQL, Webpack, Heroku, jQuery, Express.js, Flask, Express, Sequelize, Node.js, Git, Mocha (unit testing), Chai (unit testing), Ruby, Rails, cloud technologies (AWS, MongoDB), DevOps, CI/CD, Mongoose, Docker

## PROJECTS

### Dischord (Flask, SQLAlchemy, React)

[live](#) | [GitHub](#)

A Discord clone designed for musicians using Python, Flask, SQLAlchemy, AWS, Slate, SocketIO, Redux, REST API, and React

- Infused real-time updates of the user's status (online/idle/offline) using SocketIO, in combination with Redux, to simulate a real-time user experience when navigating through servers, channels, and messages
- Integrated and utilized the frontend framework, Slate, as a text editor to enable dynamically rendering videos and images when sending messages
- Implemented AWS S3, Amazon's object storage service, to allow users to upload and securely store their profile and server images helping to reduce server load times and increased the amount of images that can be stored
- Effectuated the ability for users to add friends to a friend list and then implemented an agile and robust "friend suggestion" feature that points the user to the mutual friends of that current user's friends based on frequency and mutuality

### Debonairbnb (Flask, SQLAlchemy, React)

[live](#) | [GitHub](#)

A group project designed as a refined Airbnb clone organized for the rental of high class estates using Python,

JavaScript, Flask, SQLAlchemy, AWS, Google Maps API, Date Range Picker, Redux, REST API, and React

- Designed a weighted search algorithm using various JavaScript methods in React that displays results based upon location and availability of estate.
- Organized, planned, and executed code alongside other group members, allowing us to embellish on each other's code and create a highly functional and beautiful application
- Implemented Google Maps API in the SQLAlchemy database to dynamically illustrate the real location of estates on the search/estate page
- Utilized React NPM package "Date Range Picker" to accurately display the availability of estates, which allowed users to schedule their charters (reservations) seamlessly

### ToneZone (Express, Sequelize, SQLAlchemy, React)

[live](#) | [GitHub](#)

A SoundCloud clone using JavaScript, Express, Sequelize, SQLAlchemy, Redux, REST API, and React

- Integrated continuous playback using the React-H5-Audio-Player in conjunction with Wavesurfer.js so that users can play/pause/skip in one player and have it reflected in the other player in real-time
- Implemented AWS S3, Amazon's object storage service, to allow users to upload and securely store their profile and song images helping to reduce server load times and increased the amount of images that can be stored

## EXPERIENCE

### Insurance Sales Agent

Liberty Mutual

Aug 2020 - Apr 2021

- Sold Auto, Home, Life, annuity products, and other insurance to individuals within an assigned territory using consultative sales techniques.
- Utilized Salesforce to organize and manage hundreds of leads on a daily basis
- Won "30 in 30" sales award for writing 30 policies in first month as agent
- Strong verbal communication skills used to demonstrate both products and services as well as negotiating car sale transactions

## EDUCATION

Web Development - App Academy | Summer 2022

Masters of Music - Berklee College of Music | 2016 - 2017

Bachelors of Music - Berklee College of Music | 2011 - 2016