David Burch

832 493-2263   ddb048@gmail.com   LinkedIn   Github   Portfolio

SKILLS

Languages: JavaScript, Python, HTML, CSS, SQL, Ruby, PHP
Frameworks/ Tools: React.js, Node.js, Express.js, Redux, Git, Alembic, SQLAlchemy, Flask, Sequelize, Docker, Django, KAFKA
Key Skills: Pair Programming, Test-Driven Development (TDD), Object-Oriented Programming (OOP), Scrum methodologies, Agile development, REST APIs
Expertise: Communication, Problem- Solving, Critical thinking, Leadership, Time management, Mentoring, Interpersonal Relations, Alternative Approaches

PROJECTS

BeatUp   *This is a clone of the site MeetUp* (JavaScript, Express, React, Redux, SQLite, Sequelize, Heroku)   Live Link| Repo

- Incorporated **RESTful** (REST) **API** to facilitate seamless interactions between **React** and **Express**.
- Utilized **Node.js** logic to build custom validators in **Sequelize** model definitions.
- Refactored data to allow for differences between **Sequelize** and **PostgreSql**

Q-Cord   *This is a clone of Discord* (JavaScript, Python, React, Redux, Flask, SQLite, SQLAlchemy, Render)   Live Link| Repo

- Collaborated with team programmers utilizing **Agile Development** to create, design, and deploy a clone of Discord.
- Managed interpersonal dynamics among a team of four programmers and achieved completion of four full CRUD features within a one week period.
- Collaborated with team programmers and refactored teammates code to correct for differences between **SqlAlchemy** and **PostgreSql** while managing deployments and **GIThub** repository commits to prevent merge conflicts among four junior developers.
- Utilized **Flask websockets** and **sockets.io** for private chat and communication within channels features and created custom error validations for each full CRUD feature.

Amplify   *This is a clone of Spotify* (JavaScript, Python, React, Redux, Flask, SQLite, SQLAlchemy, Render)   Live Link| Repo

- Utilized **AWS** to host audio and photo files to ensure a more streamlined user experience
- Leveraged the state management of **Redux** to simplify **React** components in the communication with **Flask** WTForms to handle form data committed across multiple models.
- Formulated **SQL** queries through **Flask** to join many-to-many relationships to best organize data for simplified querying from the frontend.

EXPERIENCE

CEO/ Music Therapist

B&B Music and Therapy Services, Oct 2016 - Current

- Developed and implemented daily group and individual sessions for residential patients with psychiatric, substance use disorder, and post-traumatic stress disorder within the behavioral health and psychiatric setting maintaining a caseload of 20 patient contact hours.
- Developed and maintained contracts with geriatric facilities with a medium caseload of 12 facilities across two states with funding through private donation to ensure full coverage.
- Coordinated billing for patients through insurance to ensure patient responsibility never exceeded 22%.
- Oversaw a team of therapists and volunteers to provide coverage for a maximum of 16 facilities and 22 individuals for a total of 84 patient contact hours per week.

Music Therapy Director

Comfort and Peace Hospice, Oct 2019 - Dec 2021

- Develop and implement therapeutic music therapy sessions for end of life patients with a maximum caseload of 160 patients seen biweekly for an average of 60 patient contact hours per week.
- Maintained and developed insurance billing protocols to expand medicaid coverage for patients resulting in an additional funding of $35 per patient for each day on service. This totalled to an increase of $255,500 in funding each quarter.

EDUCATION

App Academy - Immersive software development course with focus on full stack web development (Summer 2022)
Sam Houston State University - *MM - Music Therapy* (2018)
(3) Centenary College of Louisiana - *BA - Neuroscience, BA - Biology, BM - Music*   (2013)
Lone Star Community College - *AAS - Associates of Applied Science* (2009)