

# David Burch

832 493-2263

[ddb048@gmail.com](mailto:ddb048@gmail.com)

[LinkedIn](#)

[Github](#)

[Portfolio](#)

## SKILLS

**Languages:** JavaScript, Python, Java, HTML, CSS, SQL, Ruby, PHP

**Certifications:** AWS Cloud Practitioner

**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)

[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)

[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.
- Incorporated **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)

[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

### Full Stack Java Developer

*Cognixia*, July 2023 - March 2024

- Spearheaded Agile SCRUM teams in a dynamic, multi-time zone environment, specializing in Prompt Engineering and Generative AI with LLMs for improved coding practices.
- Applied advanced Java OOP principles for robust code development
- Attained AWS Cloud Practitioner certification to enhance cloud-based project delivery.

### 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

## 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)