

# David Burch

[GitHub](#) – [Personal Portfolio](#) – [LinkedIn](#)

## Full-Stack Java Developer

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Recent JUMP graduate pursuing a Java Development career, looking to combine nearly 18 months of industry equivalence experience with a strong digital mindset to become a valued asset to your organization.

### Skills

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|--------------|---------------|----------|
| • Java       | • SpringBoot  | • Python |
| • JavaScript | • Flask       | • SQL    |
| • Python     | • React/Redux | • AWS    |
| • Express    | • Django      | • KAFKA  |

### Experience

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**Cognixia** – San Diego, CA  
*Full-Stack Java Developer*

Jul 2023 - Present

Cognixia's JUMP program is a hyper-intense technical training program that gives top STEM talent from across the U.S. the equivalent of 12-18 months of industry experience. Not only do they up-skill their technical abilities, they also evolve their digital mindset to successfully adapt and utilize technology in an efficient manner so they can JUMP start their careers via deployment with Collabera clients.

- Prompt Engineering and Generative AI with LLMs – proficient in usage of Generative AI through prompt engineering for use cases to include: writing unit tests, enhancing algorithms, general code support, and overall productivity.
- Object Oriented Programming – able to apply all aspects of Object-Oriented Programming to design clean, reusable, and effective code in Java.

**B&B Music and Therapy Services** – San Diego, CA  
*CEO/ Music Therapist*

Oct 2016 – Present

- 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%.

**Comfort & Peace Hospice** – San Diego, CA  
*Music Therapy Director*

Sep 2019 – Present

- 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.

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## Personal Projects

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### BeatUp [GitHub](#)|[Demo](#)

*This is a clone of the site MeetUp* (JavaScript, Express, React, Redux, SQLite, Sequelize, Heroku)

- 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 [GitHub](#)|[Demo](#)

*This is a clone of Discord* (JavaScript, Python, React, Redux, Flask, SQLite, SQLAlchemy, Render)

- 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 [GitHub](#)|[Demo](#)

*This is a clone of Spotify* (JavaScript, Python, React, Redux, Flask, SQLite, SQLAlchemy, Render)

Incorporated **RESTful** (REST) **API** to facilitate seamless interactions between **React** and **Express**.

- 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.

## Education & Achievements

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**App Academy** – San Diego, CA 2022

- Full Stack Development Certificate

**Sam Houston State University** – Huntsville, TX 2018

- MM – Music Therapy
- MT-BC Certification
- Neurologic Music Therapy Certification

**Centenary College of Louisiana** – Shreveport, LA 2013

- BA – Neuroscience
- BA – Biology
- BM – Music

**Lone Star Community College** – Houston, TX 2009

- AAS – Associates of Applied Science
- Phi Theta Kappa