

# SARA BALTZ

## FULL-STACK SOFTWARE ENGINEER

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*I am a software engineer & former clinical researcher with a proven aptitude for teamwork & problem solving. I am eager to leverage my driven, detail-oriented mindset & passion for continuous learning to build robust & user-friendly applications, contribute to innovative teams, and deliver high-quality, impactful software solutions that enhance user experiences.*

**TECHNICAL SKILLS** JavaScript (Node.js, Express, Redux, Sequelize) · Python (Flask, Alembic, SQLAlchemy) · React · HTML/CSS · SQL (PostgreSQL, SQLite3) · TypeScript · Tailwind CSS · Postman · AWS S3 · Beautiful Soup · Docker · Debugging

**RELEVANT SKILLS** Writing & Documentation · Teamwork · Problem Solving · Graphic Design (Inkscape, GIMP, PaintTool SAI)

### EDUCATION

**APP ACADEMY** Software Engineering Track: Full-Time

Online | March 2025

1,000+-hour full-stack web development & computer science intensive bootcamp

**THE UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER** Clinical Research Management, M.S.

Fort Worth, TX | May 2023

**THE UNIVERSITY OF TEXAS AT DALLAS** Neuroscience, B.S.

Richardson, TX | May 2020

### PROJECTS

**ARKBITES** React · HTML/CSS | Python · Flask · SQLAlchemy · Alembic · BS4 | PostgreSQL · SQLite3 [GitHub](#) | [Live Website](#)

- Developed a full-stack website with tools for players of the mobile game Arknights that seamlessly integrates a React, HTML, and CSS frontend with a Python & Flask backend for a responsive & dynamic user experience
- Automated the acquisition of character & material icons by scraping the Arknights Terra wiki with Beautiful Soup, parsing HTML to retrieve icon URLs & subsequently processing & integrating the data into the project's database
- Engineered robust backend API endpoints using Python, Flask, SQLAlchemy, Alembic, and PostgreSQL/SQLite3 to create & manage user accounts, characters, materials, teams, and favorites, ensuring data integrity & efficient querying
- Designed & implemented a relational database schema using PostgreSQL & SQLite3, leveraging the SQLAlchemy ORM to efficiently manage data relationships & optimize query performance for core features

**MUSEIC** React · HTML/CSS | Python · Flask · SQLAlchemy · Alembic · AWS S3 | PostgreSQL · SQLite3

[GitHub](#) | [Live Website](#)

- With a group of 3 other students, developed a full-stack Spotify clone that seamlessly integrates a React, HTML, and CSS frontend with a Python & Flask backend for a responsive & dynamic user experience
- Developed a dynamic music player using React Player that utilizes React's state functionality to manage playback progress, progress through a song queue, and playback volume, enabling seamless navigation within & between songs
- Engineered robust backend API endpoints using Python, Flask, SQLAlchemy, Alembic, and PostgreSQL/SQLite3 to create & manage user accounts, songs, albums, playlists, and favorites, ensuring data integrity & efficient querying
- Designed & implemented a relational database schema using PostgreSQL & SQLite3, leveraging the SQLAlchemy ORM to efficiently manage data relationships & optimize query performance for core features

**RYOKANVAS** React · Redux · HTML/CSS | Node.js · Express · Sequelize | PostgreSQL · SQLite3

[GitHub](#) | [Live Website](#)

- Developed a full-stack AirBnB clone that seamlessly integrates a React, Redux, HTML, and CSS frontend with a Node.js & Express backend for a responsive & dynamic user experience
- Engineered robust backend API endpoints using Node.js, Express, Sequelize, and PostgreSQL/SQLite3 to create & manage user accounts, property listings, and reviews, ensuring data integrity & efficient querying
- Enhanced application security with client- & server-side validation, user authentication & authorization, middleware to protect against common web vulnerabilities (Helmet & Csrf), and password hashing (BCrypt)
- Designed & implemented a relational database schema using PostgreSQL & SQLite3, leveraging the Sequelize ORM to efficiently manage data relationships & optimize query performance for core features

**SARABALTZ.COM** Tailwind CSS | TypeScript

[GitHub](#) | [Live Website](#)

### PUBLICATIONS

**PHYSIOLOGICAL AND PERCEPTUAL DEMAND OF OVERGROUND ROBOTIC EXOSKELETON GAIT TRAINING ON PHYSICAL THERAPISTS IN THE INPATIENT NEUROREHABILITATION SETTING** | Co-Author

October 2024

Awards: American Congress of Rehabilitation Medicine Poster Spotlight 1<sup>st</sup> Place Award, Best Early Career Poster in Technology

**METABOLIC INTENSITY OF OVERGROUND ROBOTIC EXOSKELETON GAIT TRAINING AMONG PATIENTS WITH SUBACUTE SPINAL CORD INJURY** | Co-Author

October 2024

Awards: Spinal Cord Injury Interdisciplinary Special Interest Group Early Career Poster Award

### EMPLOYMENT

**CLINICAL RESEARCH COORDINATOR 1** Baylor Scott & White Institute for Rehabilitation

February 2023 – September 2024

- Coordinated the Sleep SMART, ERA Stroke, FIRST, DOOR, and SCIMS Spasticity Module investigator-initiated clinical trials
- Maintained departmental databases (stroke admissions; publications & dissemination; CVs, licenses, and certifications)