

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

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 integrates a React frontend with a Python & Flask backend
- 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 Flask to create/manage user accounts, characters, materials, teams, and favorites
- Designed & implemented a relational database schema using SQLAlchemy, Alembic, and PostgreSQL (prod)/SQLite3 (dev)

MUSEIC React · HTML/CSS | Python · Flask · SQLAlchemy · Alembic · AWS S3 | PostgreSQL · SQLite3 [GitHub](#) | [Live Website](#)

- Developed a full-stack Spotify clone with 3 other software engineers
- Built a dynamic music player using React Player that utilizes React's state functionality to manage playback progress, navigate through a song queue, and playback volume, enabling seamless navigation within & between songs
- Engineered robust backend API endpoints using Flask to favorite & unfavorite songs

RYOKANVAS React · Redux · HTML/CSS | Node.js · Express · Sequelize | PostgreSQL · SQLite3 [GitHub](#) | [Live Website](#)

- Developed a full-stack Airbnb clone that integrates a React frontend with a JavaScript backend
- Enhanced application security with client- & server-side validation, user authentication & authorization, middleware to protect against common web vulnerabilities (Helmet & Csrf), and password hashing (BCrypt)
- Engineered robust backend API endpoints using Express to create/manage user accounts, property listings, and reviews
- Designed & implemented a relational database schema using Sequelize & PostgreSQL (prod)/SQLite3 (dev)

SARABALTZ.COM React · TypeScript · Tailwind CSS [GitHub](#) | [Live Website](#)

EXPERIENCE

CLINICAL RESEARCH COORDINATOR 1 Baylor Scott & White Institute for Rehabilitation February 2023 – September 2024

- Developed & implemented data tracking systems for stroke admissions, streamlining patient eligibility screening & improving data accessibility for research teams
- Utilized REDCap to design & manage complex databases, automate data entry, and streamline regulatory compliance processes, improving data integrity & operational efficiency
- Coordinated multiple research projects (Sleep SMART, ERA Stroke, etc.) simultaneously, managing timelines & resources to guarantee project milestones were met in compliance with regulatory requirements
- Collaborated with study principal investigators to design & plan future projects & to develop study materials
- Managed complex research databases, ensuring data integrity & accuracy through rigorous auditing & validation processes
- Worked closely with clinical & research staff to coordinate participant screening & follow-up assessments, fostering interdisciplinary collaboration