SARA BALTZ

FULL-STACK SOFTWARE ENGINEER

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I am a software engineer and former clinical researcher with a proven aptitude for teamwork and problem solving. I am eager to leverage my driven, detail-oriented mindset and passion for continuous learning to build robust and 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 and 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 and 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 · Redux · 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 Python and Flask backend with a React frontend using Redux for state management
· Automated the acquisition of character and material icons by scraping the Arknights Terra wiki with Beautiful Soup, parsing HTML to retrieve icon URLs and subsequently processing and 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 and implemented a relational database schema using SQLAlchemy, Alembic, and PostgreSQL (prod)/SQLite3 (dev)

MUSEIC   *React · Redux · HTML/CSS **|** Python · Flask · SQLAlchemy · Alembic · AWS S3 **|** PostgreSQL · SQLite3*   *GitHub | Live Website*
· Collaborated with 3 other software engineers to develop a full-stack Spotify clone, taking the lead on designing the app's layout
· 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 and between songs
· Engineered robust backend API endpoints using Flask to favorite/unfavorite songs, triggering actions that update the Redux state

RYOKANVAS   *React · Redux · HTML/CSS **|** Node.js · Express · Sequelize **|** PostgreSQL · SQLite3*   *GitHub | Live Website*
· Developed a full-stack Airbnb clone that integrates a JavaScript backend with a React frontend using Redux for state management
· Enhanced application security with client- and server-side validation, user authentication and authorization, middleware to protect against common web vulnerabilities (Helmet and Csurf), and password hashing (BCrypt)
· Engineered robust backend API endpoints using Express to create/manage user accounts, property listings, and reviews
· Designed and implemented a relational database schema using Sequelize and PostgreSQL (prod)/SQLite3 (dev)

SARABALTZ.COM   *React · TypeScript · Tailwind CSS*   *GitHub | Live Website*

EXPERIENCE

CLINICAL RESEARCH COORDINATOR 1   **Baylor Scott and White Institute for Rehabilitation**   *February 2023 – September 2024*
· Developed and implemented data tracking systems for stroke admissions, streamlining patient eligibility screening and improving data accessibility for research teams
· Utilized REDCap to design and manage complex databases, automate data entry, and streamline regulatory compliance processes, improving data integrity and operational efficiency
· Coordinated multiple research projects (Sleep SMART, ERA Stroke, etc.) simultaneously, managing timelines and resources to guarantee project milestones were met in compliance with regulatory requirements
· Collaborated with study principal investigators to design and plan future projects and to develop study materials
· Managed complex research databases, ensuring data integrity and accuracy through rigorous auditing and validation processes
· Worked closely with clinical and research staff to coordinate participant screening and follow-up assessments, fostering interdisciplinary collaboration