

# Timothy Medewase

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## EDUCATION

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### University of Montevallo

Montevallo, AL

*Honors Bachelor of Science in Computer Science, Minor in Mathematics*

*Aug. 2021 - May 2025*

**Relevant Coursework:** Introduction to Computer Science, Computer Programming I (Python), Object-Oriented Programming, Calculus I, II, III, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Programming Languages, Software Engineering

## TECHNICAL SKILLS

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**Languages:** Java, TypeScript, JavaScript, SQL, Python, C++, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Flask, Express.js, Spring Boot, Material-UI, TailwindCSS, Bootstrap, Next.js, Pandas, NumPy, Matplotlib, Scikit-learn, SciPy, Tensorflow, PyTorch

**Developer Tools:** Git, SQLite, PostgreSQL, LaTeX, Figma, VS Code

## EXPERIENCE

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### Software Development Intern

June 2023 — July 2023

*Solera, Inc.*

*Westlake, TX*

- Designed and implemented an interactive dashboard using **React.js**, creating modular and reusable components, which reduced development time for new features by 40% and ensured scalability across the application.
- Integrated data visualization libraries (**D3.js**) to transform complex datasets into dynamic and visually engaging insights, leading to a 30% increase in user engagement
- Developed optimized **Microsoft SQL Server** queries to extract, filter, and aggregate data, reducing data retrieval time by 50% and encapsulated them into stored procedures to enhance code consistency and reusability
- Enhanced API interactions through the use of **Axios**, achieving a 40% improvement in data retrieval times while ensuring smooth integration with front-end components and elevating overall application responsiveness
- Delivered a comprehensive and interactive analytics platform that provided stakeholders with real-time insights, maximizing the value of existing company data and improving decision-making efficiency by 35%

## PROJECTS

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### SPAZ | *Next.js, React, JavaScript*

February 2024 - May 2024

- Developed a web application using **Next.js**, **TailwindCSS**, **JavaScript** that provides users insights into their Spotify listening patterns, processing 1000+ user data points
- Utilized Spotify's API to access user's data, requiring user authentication via **OAuth 2.0**

### Buy-N-Sell | *Next.js, React, Prisma, PostgreSQL*

March 2024 - April 2024

- Developed a robust e-commerce platform with **Next.js** and **React**, featuring user authentication, order processing, and secure payment transactions
- Designed and implemented an intuitive admin interface for product management, allowing the addition, update, and deletion of products through a streamlined workflow, increasing efficiency by 50%
- Utilized **Prisma** and optimized **PostgreSQL** queries to manage user and product data efficiently, ensuring high performance and reducing query execution time by 35%

### Soccer stats | *Next.js, React, TypeScript, TailwindCSS*

May 2024

- Developed a dynamic soccer statistics web application using **Next.js**, featuring comprehensive views of 100+ clubs, 10,000+ players, and head-to-head comparisons, with real-time data fetched from external APIs
- Implemented server-side rendering (**SSR**) and static site generation (**SSG**) to enhance performance and SEO, reducing page load time by 40%, and ensuring a fast and responsive user experience
- Designed and built reusable, responsive UI components with **React**, leveraging modern **TailwindCSS** techniques to create a visually appealing and user-friendly interface

### Housing Predictions Project | *Python, Scikit-learn, SciPy, NumPy, Matplotlib, Pandas*

April 2024

- Created a predictive system for California housing costs using a comprehensive dataset, leveraging **Pandas** for data manipulation and preprocessing
- Optimized the **Random Forest regressor** model through hyperparameter tuning, achieving a **92%** accuracy rate in predictions