Timothy Medewase

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Education

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

Languages: Java, TypeScript, JavaScript, SQL, Python, C++, HTML/CSS
Frameworks & Libraries: React, Node.js, Flask, Express.js, Material-UI, TailwindCSS, BootStrap, Next.js, Pandas, NumPy, Matplotlib, scikit-learn, SciPy, Tensorflow, pyTorch
Developer Tools: Git, SQLite, PostgreSQL, LaTeX, Figma, VS Code

Experience

Software Development Intern June 2023 — July 2023

Solera, Inc. *Westlake, TX*

- Leveraged **React.js** component-based approach to create re-usable UI elements, resulting in a modular and scalable application structure
- Integrated data visualization libraries (**D3.js**) to present complex data in a visually appealing and intuitive manner
- Developed complex **Microsoft SQL Server** queries to extract, filter, and aggregate data, facilitating efficient data retrieval and analysis and incorporated them into stored procedures to improve code reusability and consistency
- Utilized **Axios** to retrieve data from APIs and efficiently parse and transform the response data, ensuring compatibility with frontend components

Projects

SPAZ | *Next.js, TailwindCSS, JavaScript* February 2024 - May 2024

- Developed a web application using **Next.js, TailwindCSS, JavaScript** that provides users insights into their Spotify listening patterns
- Utilized Spotify's API to access user's data, requiring user authentication via **OAuth2.0**

Buy-n-Sell | *Flask, React, Python, PostgreSQL* March 2024 - April 2024

- Engineered a comprehensive E-commerce platform using **Flask**, enabling 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
- Developed and optimized **PostgreSQL** queries to efficiently handle and analyze user and product data, ensuring high performance and data integrity

NBA Companion | *Next.js, React, TypeScript, TailwindCSS* May 2024

- Developed a dynamic NBA companion web applicationusing **Next.js**, featuring comprehensive views of conferences, clubs, 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, 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
- Evaluated multiple machine learning models with **Scikit-learn** to identify the model with the lowest generalization error, ensuring robust performance
- Optimized the Random Forest regressor model through hyperparameter tuning, achieving highly accurate housing price predictions.