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, Introduction to Data Analytics & Computing, Computer Programming I (Python), Object-Oriented Programming (OOP), 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: Spring Boot, Maven/Gradle, React, Redux, Node.js, Next.js, Express.js, Vite, Jest, d3.js, recharts, Django, Flask, FastAPI, Pandas, NumPy, Celery, TensorFlow, PyTorch, Scikit-learn, Material-UI, TailwindCSS
Tools, Databases & Deployment: Git, GitHub, Bitbucket, LaTeX, Prisma, SQLAlchemy, SQLite, PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, REST APIs, GraphQL, Docker, AWS, Heroku, Vercel

EXPERIENCE

Software Development Intern   May 2023 – Jul. 2023
Solera, Inc.   *Westlake, TX*
- Designed and delivered a full-stack analytics platform using **React** and **d3.js**, building modular, component-based data visualizations that improved user engagement by **30%** and reduced feature development time by **40%**.
- Engineered high-performance backend data workflows with **Microsoft SQL Server**, optimizing stored procedures and query execution to reduce data retrieval latency by **50%** while ensuring consistency across services packaged in **Docker** containers.
- Integrated RESTful API endpoints using **Axios** and automated CI/CD pipelines with **Bitbucket**, streamlining deployment, reducing integration bugs by **40%**, and increasing deployment frequency to support real-time, data-driven insights for stakeholders.

PROJECTS

ExplainAI | *Next.js, Python, FastAPI, FAISS, OpenAI, Heroku* | Link   Apr. 2025
- Built a **retrieval-augmented generation (RAG)** web app, improving information retrieval by **40%** over traditional methods with a **Next.js** frontend and **Python-based FastAPI** backend.
- Implemented secure file handling for **five concurrent uploads** and integrated **FAISS** with the **OpenAI API** to enable fast semantic search, cutting query latency by **60%**.
- Developed modular **React** components and deployed APIs on **Heroku** with **99% uptime**, supporting a scalable user experience and handling **50%** more user traffic without performance loss.

Movie Management System | *Java, Spring Boot, Spring JDBC* | Link   Nov. 2024
- Managed a **10,000-entry** database, applying **OOP** principles and a layered architecture for maintainability and scalability.
- Improved backend development using **Spring Boot**, reducing setup time by **40%** with auto-configuration and decreasing query code via **Spring JDBC**.
- Accelerated data processing speed by **20%** through efficient in-memory handling with **Java Collections** and implemented complete **CRUD** operations.

Buy-N-Sell | *Next.js, React, Prisma, PostgreSQL, Stripe* | Link   May 2024
- Launched an e-commerce platform that improved engagement by **30%** using **Next.js** and **React** to build core features for a seamless UI/UX.
- Developed an admin dashboard to manage inventory, boosting backend efficiency by **50%** and ensuring data consistency through refined **CRUD** workflows.
- Integrated **Stripe** to process multiple concurrent transactions with a **100%** success rate and optimized database access via **Prisma** and **PostgreSQL**.

SPAZ | *Next.js, React, TypeScript, TailwindCSS, Spotify* | Link   Feb. 2024
- Boosted user return rate by **45%** by delivering personalized Spotify insights through large-scale listening history analysis using **Next.js**, **React**, and **TailwindCSS**.
- Fetched multiple data points per user with the **Spotify API** and implemented **OAuth 2.0** for secure data access and privacy compliance.
- Increased engagement by **60%** with interactive visualizations of listening trends, achieving a perfect **100%** Lighthouse performance score.