

Austin D. Williams

www.austin-williams.me

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SUMMARY

Results-driven developer with strong experience in healthcare data systems, specializing in REDCap database management, automated data integration, and data visualization with Tableau. Proven ability to support NIH-funded research through scalable and efficient technical solutions. Passionate about transforming raw data into actionable insights to support decision-making in clinical research and healthcare settings.

TECHNICAL SKILLS

Data & BI Tools: SQL, REDCap, Tableau, MongoDB, ETL

Programming: Python, JavaScript, Node.js, PHP, React, Next.js, HTML, CSS

Tools & Platforms: GitHub, Postman, jQuery, Bootstrap

Experience

Vanderbilt University Medical Center, Nashville, TN

Application Developer • 07/2023 - Present

- Engineered and maintained REDCap databases capturing 6,000+ ICU delirium study data points, improving data integrity and enabling scalable data management for NIH-funded research.
- Designed and deployed automated data pipelines using the REDCap API to ingest and transform third-party sources (e.g., Fitbit), reducing manual data entry and ensuring real-time data availability.
- Built and optimized Tableau dashboards backed by efficient SQL queries, providing researchers with near real-time analytics on study metrics and participant outcomes.
- Translated and localized REDCap database into Portuguese, enabling the successful launch of a second international study site in Brazil and ensuring consistent data collection across locations.

Associate Application Developer • 04/2021 – 07/2023

- Proactively learned **Python**, **PHP**, and **Tableau** to design and implement data-driven applications that enhanced research capabilities and team efficiency.
- Built REDCap-based automation tools and scripts using **Python** and **PHP**, reducing manual data entry and accelerating data processing.
- Developed tailored **Tableau** dashboards to support study reporting, analysis, and publication efforts.

Athletic Trainer (PRN) • 11/2019 – 04/2021

- Delivered comprehensive sports medicine services for Vanderbilt basketball and local athletic events, supporting athletes through injury recovery and return-to-play programs.
- Collaborated with physicians and physical therapists to coordinate care plans, ensuring safe and efficient rehabilitation.

Clinical Coordinator of Event Medicine • 11/2015 – 10/2019

- Supervised 25+ part-time medical staff across 40+ annual events, managing scheduling, training, and on-site medical logistics.
- Implemented standardized injury response protocols that improved team coordination and athlete care quality during large-scale events.

Athletic Trainer • 08/2011 – 11/2015

- Provided on-site athletic training services to high school sports programs, guiding athletes through rehabilitation from injury to full return to play.
- Partnered with healthcare professionals to develop individualized treatment plans that promoted safe recovery and reduced reinjury risk.

Professional Development

- **Tableau Conference (2025, San Diego, CA)** • Premier annual event for data professionals to explore Tableau innovations and best practices
- **REDCap Fest (2024 - 2025)** • Workshops & presentations for Vanderbilt/Meharry researchers
- **REDCapCon (2022, Boston, MA)** • Global education and networking for REDCap administrators
- **REDCap Day (2022-2023)** • Annual virtual training events

EDUCATION**Vanderbilt University - Owen Graduate School of Management****Full Stack Web Development Certificate • 2020**

Topics: HTML5, CSS3, JavaScript, jQuery, Bootstrap, Express.js, React, Node.js, MySQL, MongoDB

Middle Tennessee State University, Murfreesboro, TN**Bachelor of Science in Health and Human Performance • Athletic Training**