

SHERMINTA J. LAWRENCE

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PROFESSIONAL SUMMARY

Experienced Healthcare IT & Senior Health Data Analyst with 10+ years of expertise in business intelligence, data integration, and healthcare analytics. Specializing in HL7 interfaces, Epic integrations, and healthcare interoperability. Proficient in configuring and validating HL7 (ADT, ORM, ORU) transactions for EMRs, including Epic Beaker, Meditech, Cloverleaf, Cerner, and Vista. Skilled in FHIR data validation, JSON structure mapping, SQL, and API development. Adept at leveraging data visualization tools such as Power BI and Tableau to provide actionable insights. Strong communicator and problem-solver, capable of leading cross-functional teams and optimizing workflows to improve efficiency and compliance.

CORE COMPETENCIES & TECHNICAL SKILLS

- **HL7 Integration & EMR Interfaces:** ADT, ORM, ORU, Epic Beaker, Meditech, Cloverleaf, Vista
 - **FHIR & API Development:** FHIR Patient resources, JSON structure validation, API integrations
 - **Data Analytics & Business Intelligence:** SQL, Power BI, Tableau, SAS (Basic), familiarity with R/SPSS
 - **Programming & Data Management:** Python, JavaScript, VB, PowerShell
 - **Database Management & ETL:** SQL Server, pgAdmin4, Performance Tuning
 - **Software Development Lifecycle (SDLC):** Agile, Debugging, System Enhancements
 - **Project Management & Consulting:** Analytic Design, Data Collection, Measure Reporting, Cross-functional Collaboration
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PROFESSIONAL EXPERIENCE

DATA/INTERFACE ANALYST

Abbott | March 2022 – Present
Epic & HL7 Integration

- Configured **HL7 interfaces (ADT, ORM, ORU)** for **Epic Beaker, Meditech, Cloverleaf, Cerner and Vista** to support seamless data exchange between laboratory systems and EMRs.

- Developed and validated **FHIR Patient resources**, performing **JSON structure mapping** and ensuring compliance with interoperability standards.
- Collaborated with clinical and IT teams to troubleshoot **HL7 message errors**, ensuring accurate and timely data flow between systems.
- Optimized **SQL queries** to validate patient and device data, enhancing data integrity and performance.
- Led workflow enhancements to streamline **HL7 interface implementation** and reduce integration downtime.

SUPERVISOR, WOMEN'S CLINICS

University of Virginia Health | December 2018 – January 2021

- Directed development and implementation of clinic workflow initiatives, increasing patient retention by 30% through optimized scheduling and care coordination.
- Led process improvement projects, applying **SQL and Python-based data analysis** to identify bottlenecks and improve access to care.
- Collaborated with clinical and operational leadership to document milestones, best practices, and compliance standards across multiple clinics.
- Presented reports to senior management, outlining operational trends, potential risks, and recommended solutions for quality improvements.
- Oversaw staff training on updated workflows, fostering a culture of continuous improvement and corporate compliance.

DATA ANALYST

University of Virginia Health System | November 2012 – December 2018

Epic Cadence Migration & Data Integration

- Led the transition from a **VB-based scheduling platform to Epic Cadence**, ensuring accurate data migration and minimal service disruptions.
- Configured and maintained **HL7 scheduling messages**, supporting efficient provider and resource scheduling.
- Developed **scorecards, benchmarking studies, and ad hoc analyses** to drive data-driven decision-making.
- Created **interactive dashboards in Tableau and Power BI**, enabling real-time KPI visibility for leadership.
- Automated **ETL pipelines** and optimized SQL queries, enhancing reporting speed and departmental effectiveness.
- Conducted **system testing** for new Epic modules, ensuring data integrity and alignment with organizational goals.

GRAPHIC DESIGNER

U.S. Army JAG School | October 2010 – October 2012

- Designed infographics, presentations, and print materials to communicate complex legal and training information effectively.
 - Managed departmental resources and workflows, supporting administrative functions and coordinating project timelines.
 - Applied **UI/UX principles** in design projects, maintaining consistency and brand guidelines for internal and external communications.
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EDUCATION

BFA – Graphic Design, Wayne State University, Detroit, MI (2009)

(Equivalent experience in healthcare analytics, systems integration, and data management)

KEY STRENGTHS & ALIGNMENT

- **Epic & HL7 Expertise:** Configured **HL7 interfaces** for **Epic Beaker** and other EMRs, ensuring smooth data exchange.
 - **FHIR & JSON Validation:** Hands-on experience with **FHIR Patient resources**, JSON structure mapping, and API data validation.
 - **Interoperability & Data Integration:** Strong understanding of **healthcare data exchange standards**, reducing integration errors and improving workflow efficiency.
 - **Project Management:** Led **VB → Epic** and **VB → Mirth** migrations, documenting milestones and training end-users.
 - **Communication & Collaboration:** Effective in liaising with **clinical, IT, and executive teams** to optimize healthcare data workflows.
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GITHUB & PORTFOLIO

- **Portfolio:** SQL, HL7/FHIR interface projects on [GitHub](#) (In Progress and will be completed by 3/15/2025)