

Benzon Carlitos Salazar

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EDUCATION

University of Wisc. - Whitewater
MS in Computer Science
December 2025 | Whitewater, WI
GPA: 3.66 / 4.0

BS in Computer Science
December 2020 | Whitewater, WI
GPA: 3.76 / 4.0

COURSEWORK

GRADUATE

Advanced Algorithm Design and Analysis
Cloud Computing
Optimization Techniques
Software Testing
Big Data and Data Mining
Advanced Software Engineering
Machine Learning

UNDERGRADUATE

Data Structures
Database and Web Design
Software Engineering
Cryptography and Network Security
Computer Organization
Database Management Systems

SKILLS

PROGRAMMING

Python • SQL • R
Java • C • JavaScript

MISCELLANEOUS TECH.

Linux • Git • Docker
REDCap • Tableau • Alteryx

CERTIFICATIONS

Epic: { Cogito • Clarity Data Model •
Caboodle Data Model • Clinical Data Model
• Access Data Model • Cosmos Data Model }

EXPERIENCE

ADVOCATE AURORA RESEARCH INSTITUTE | Research Programmer Analyst
September 2025 - PRESENT | Milwaukee, WI (REMOTE)

- Rejoined Advocate Aurora to support clinical and outcomes research by building and maintaining analytics pipelines and analysis-ready datasets.
- Develop and maintain ETL workflows and data quality checks using SQL, R, Python, and Java to improve reproducibility and turnaround time for IRB-approved studies.
- Partner with researchers and cross-functional stakeholders to translate study requirements into curated datasets, documentation, and repeatable extracts aligned with HIPAA/IRB governance.

EMORY UNIVERSITY | Informatics Analyst II
May 2024 - August 2025 | Atlanta, GA (REMOTE)

- Led end-to-end data engineering and analysis efforts across Emory and Grady's OB-GYN and internal Department of Medicine departments, as well as national-scale data from Epic Cosmos, collaborating with cross-functional teams including clinicians, researchers, and project managers to deliver data-driven insights for research and operational decision-making.
- Extracted, cleaned, and transformed clinical data from Epic (Clarity, Caboodle), Cerner, and internal data warehouses using SQL, Python, and R to support IRB-approved studies, quality improvement initiatives, and regulatory reporting.
- Piloted and implemented proof-of-concept pipelines integrating biomedical informatics standards, ensuring reproducibility, interoperability, and alignment with HIPAA, Emory IRB, and institutional data governance policies.

VIVENT HEALTH | Health Informatics Data Analyst
Dec 2022 - May 2024 | Milwaukee, WI

- Compiled, integrated, and maintained large-scale clinical and operational datasets from Epic Systems and Provide Enterprise using SQL, Python, and internal ETL pipelines, enabling streamlined access to reliable, high-quality data for strategic decision-making.
- Built interactive dashboards and visualizations in Tableau to communicate performance trends and operational insights to clinical, administrative, and executive stakeholders, improving transparency and facilitating data-driven decision-making.
- Developed and deployed machine learning models using Python and Tableau to support clinical decision-making and optimize resource utilization, helping to resolve critical operational bottlenecks and improve healthcare delivery.

ADVOCATE AURORA RESEARCH INSTITUTE | Research Programmer Analyst
Jan 2021 - Dec 2022 | Milwaukee, WI (REMOTE)

- Designed and maintained core applications and pipelines supporting collaborative clinical and outcomes research, contributing to the development of a Virtual Data Warehouse written in Java to streamline data access and integration across institutional sources.
- Built and deployed automated ETL workflows using Java and R to extract, clean, and transform clinical and administrative data across both on-premises and cloud environments, significantly reducing data preparation time for analysts and investigators.
- Improved data quality and reproducibility by implementing scalable features and scripting solutions (SQL, R, Python) that generated analysis-ready datasets aligned with HIPAA, IRB, and institutional governance protocols.

PROJECTS

Networked Ensemble of Swarm Things (NEST) – Vision-Based Verification of Crazyflie Formations

- Project repository: https://github.com/carlliitos/intelligent_drone_swarm