ORLANDO, FLORIDA

Justin Napolitano

Data engineer translating heart failure quality metrics and media portfolios into legible systems for creative leaders.

ROLE

Data & Analytics Engineer

FOCUS

Healthcare quality, media systems, editorial-grade BI

EMAIL

justin@jnapolitano.com (mailto:justin@jnapolitano.com)

LINKEDIN

linkedin.com/in/justin-napolitano (https://www.linkedin.com/in/justin-napolitano)

GITHUB

github.com/justin-napolitano (https://github.com/justin-napolitano)

SYSTEMS-FIRST CLARITY. HEALTHCARE-GRADE RIGOR.

Practice statement

Bridging Epic Clarity, Vizient, and media stacks into narratives that executives, clinicians, and creative leads can act on.

Business and clinical data analyst specializing in healthcare analytics, Epic Clarity SQL, and performance improvement.

Experienced with heart failure quality metrics, readmissions, and enterprise BI tooling including Power BI and GCP-based stacks.

Bridges technical and non-technical stakeholders to deliver data products that improve outcomes and reduce costs.

Experience

Recent roles leading hospital analytics, editorial data programs, and independent client systems.

AUG 2025
PRESENT

Data Engineer

AdventHealth • Orlando, Florida

- Stand up Azure Data Factory + Synapse pipelines that land Epic Clarity extracts into governed models for quality and operations teams.
- Build Power BI and Looker Studio dashboards that surface heart failure and readmission metrics for service line leaders within 24 hours of discharge.
- Harden dbt and SQL transformations that reconcile EDW, Vizient, and bedside documentation into one source of truth for CFO and CMO briefs.
- Partner with nursing, cardiology, and digital to automate alerts, reducing manual spreadsheet updates by 60% across the network.

(Azure Data Factory) (Synapse) (Power BI) (Looker Studio) (dbt) (Epic Clarity)

(SQL)

JAN 2025
AUG 2025

Business Analyst II

AdventHealth • Orlando, Florida

- Partnered with clinical and operations teams to define data requirements for performance and quality improvement initiatives.
- Designed SQL-based reporting pipelines and Power BI dashboards for inpatient care and readmissions metrics.

- Supported data validation and reconciliation efforts across Epic Clarity and EDW environments.
- Contributed to cross-functional analytic projects focused on cost reduction, patient outcomes, and digital health integration.

Epic Clarity   SQL   Power BI   Enterprise Data Warehouse

Healthcare quality metrics

APR 2022
APR 2024

Data & Analytics Engineer

Penske Media Corporation • Los Angeles, California

- Led evaluation of six AI and data vendors, assessing integration, latency, and scalability to guide $5M in platform investment decisions.
- Fine-tuned large language models using Python, improving generative quality by 10% based on editorial scoring loops.
- Built twelve Python- and SQL-based reporting pipelines in GCP, integrating with Looker to deliver topic insights across thirty media brands.
- Increased subscription conversion rates by 5% through KPI reporting in GCP that powered targeted marketing runs.
- Modeled first-party user behavior in Treasure Data CDP using 150+ signals to support retention and exec briefings across Rolling Stone, Billboard, and more.

Python   SQL   GCP   Looker   Treasure Data CDP   Large language models

AI vendor evaluation   Subscription analytics   Customer segmentation

JAN 2020
APR 2022

Independent Data Consultant

BTJN • Houston, Texas

- Implemented two customer data platforms to improve audience segmentation and campaign targeting for 2M+ high-value prospects.

- Migrated three legacy systems to GCP, doubling data processing speeds and streamlining analytics workflows.

- Automated email marketing pipelines that converted 10% of 5,000 cold leads into qualified clients.

GCP   Customer data platforms   Marketing automation

ETL and system migration

JAN 2018
AUG 2019

Research Assistant

University of Central Florida • Orlando, Florida

- Designed a rubric for coding international human rights violations using statutes from major global treaties.

- Led a five-person research team to develop an open-source MySQL database documenting systemic abuses across global conflict zones.

- Co-authored an analysis on gender-based violence published by De Gruyter and presented at the International Criminal Court in The Hague.

MySQL   Research design   Data coding   Human rights analytics

Selected work

Compact dossiers covering the systems most referenced in partner conversations.

Heart Failure Quality Metrics Dashboard

AdventHealth – Epic Clarity / Power BI

- Designed and implemented a reporting suite for heart failure populations, covering I/O compliance, GDMT discharge, EF capture, and readmission metrics.
- Developed a reusable data dictionary and benchmarking logic to support Power BI dashboards and documentation.
- Standardized ICD-10-based cohort definitions and EF extraction logic across multiple reporting workflows.

Epic Clarity   SQL

Power BI

Heart failure quality measures

Observed-to-Expected Mortality Analysis

AdventHealth – Vizient data

- Built an observed-to-expected (O/E) mortality analysis pipeline using Vizient data to identify performance gaps by service line and DRG.
- Collaborated with clinical leaders to translate O/E insights into targeted quality improvement initiatives.

Vizient clinical data   SQL

Risk-adjusted metrics

AI Agent for Hospital Supply Chain

Independent exploration

- Explored design of an AI agent to assist hospital supply chain and procurement teams with forecasting, vendor evaluation, and contract analysis.
- Drafted a conceptual architecture for data ingestion, retrieval-augmented generation, and workflow integration.

LLMs   RAG

Healthcare supply chain

Systems + tools

Highlights first, then the full capabilities index for recruiters and teams that want the complete catalog.

WAREHOUSING & MODELING

Snowflake	2 yrs · lvl 4
BigQuery	3 yrs · lvl 5
dbt	1.5 yrs · lvl 3
SQL	7 yrs · lvl 5

CLOUD & DEPLOYMENT

Azure	2 yrs · lvl 4
GCP	4 yrs · lvl 5
Docker	3 yrs · lvl 4
Cloud Functions	2 yrs · lvl 3

BI & ACTIVATION

Power BI	2 yrs · lvl 4
Looker	1 yrs · lvl 3
Treasure Data CDP	2 yrs · lvl 4
APIs & Web Apps	2 yrs · lvl 3

LAKEHOUSES

- BigQuery — 3 yrs
- Snowflake — 2 yrs
- Treasure Data CDP — 2 yrs
- dbt — 1.5 yrs

CLOUD COMPUTE

- GCP — 4 yrs
- Azure — 1 yrs
- AWS — 0.5 yrs
- Cloud Functions — 2 yrs

DATA SCIENCE PLATFORMS

- SQL — 7 yrs
- Python — 7 yrs
- Julia — 3 yrs
- Jupyter — 6 yrs
- SAS — 2 yrs

BI AND DATA VIZ

- Excel — 10 yrs
- Matplotlib — 6 yrs
- Leaflet — 3 yrs
- Seaborn — 4 yrs
- Looker — 1 yrs

- SPSS — 2 yrs
- R — 2 yrs

- Plotly — 2 yrs
- Power BI — 2 yrs

GRAPH ANALYSIS

- NetworkX — 5 yrs
- Neo4j — 3 yrs

ALGORITHMS AND STATISTICS

- Seasonal Forecasting — 3 yrs
- (Non-) Parametric Testing — 4 yrs
- Topic Modeling — 3 yrs

AI DEVELOPMENT

- Retrieval-Augmented Generation — 1 yrs
- Agentic Model Design — 1 yrs

Education

BA, Political Science

University of Central Florida • Orlando, Florida

August 2017

Statistics Specialization

University of Central Florida • Orlando, Florida

August 2018

Python 3 Specialization

University of Michigan • Online

January 2020

Coursera specialization focused on Python 3 programming and applied data analysis.

Publication

Turkish Kurdish Analysis Database

Peace Economics, Peace Science and Public Policy • 2019

Read the paper (https://doi.org/10.1515/peps-2019-0036)

justin@jnapolitano.com (mailto:justin@jnapolitano.com)

Book a call (https://cal.com/justin-napolitano-gvu3p3/intro)