

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

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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.

Epic Clarity quality metrics, Vizient Q/E models, and media analytics roadmaps under one authored brief.

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

*Epic Clarity → Vizient → CFO briefings,
harmonized inside 24h.*

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

LLM + CDP stack stitched across Rolling Stone, Billboard, WWD.

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

LLM + CDP stack stitched across Rolling Stone, Billboard, WWD while harmonizing AdventHealth heart failure data.

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

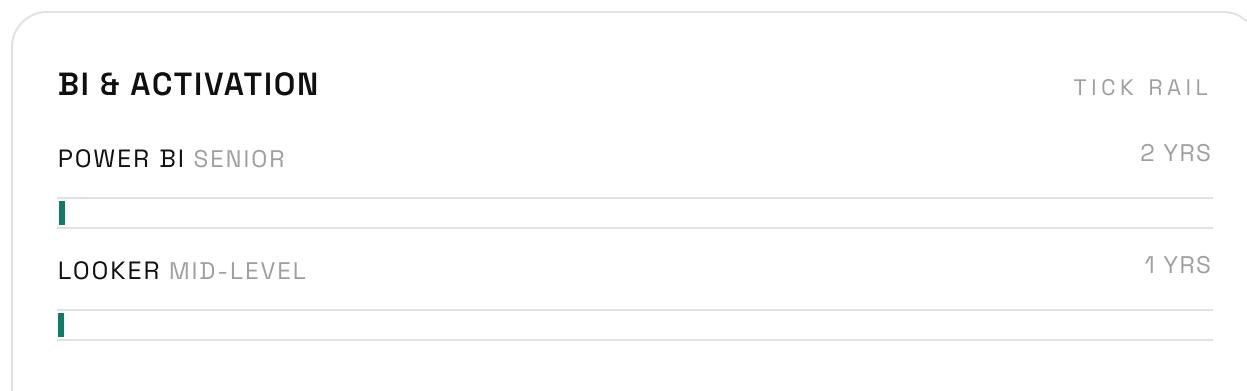
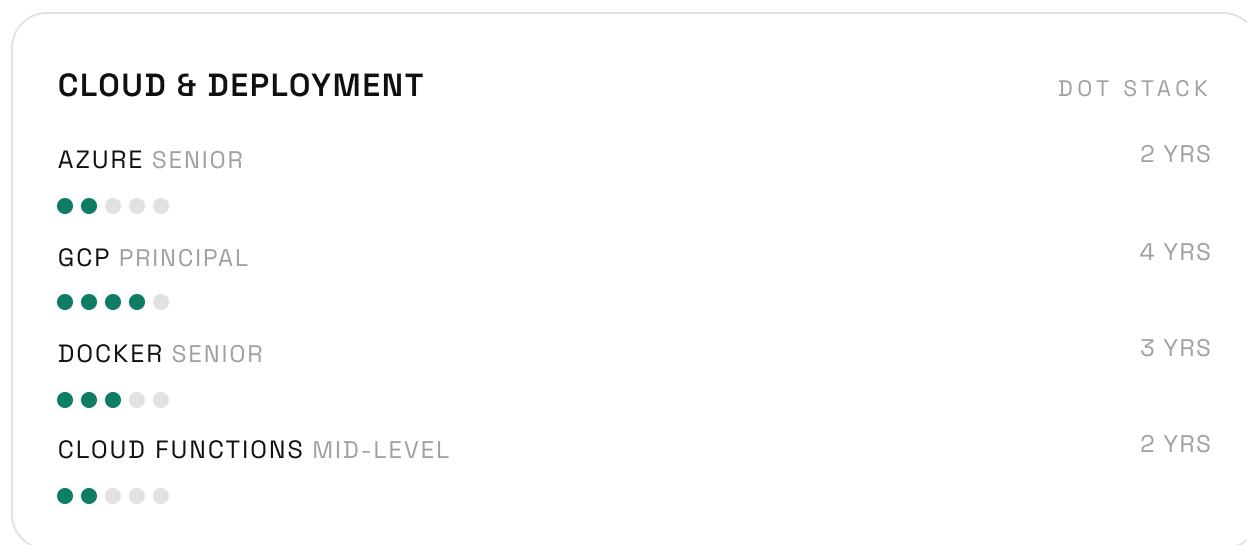
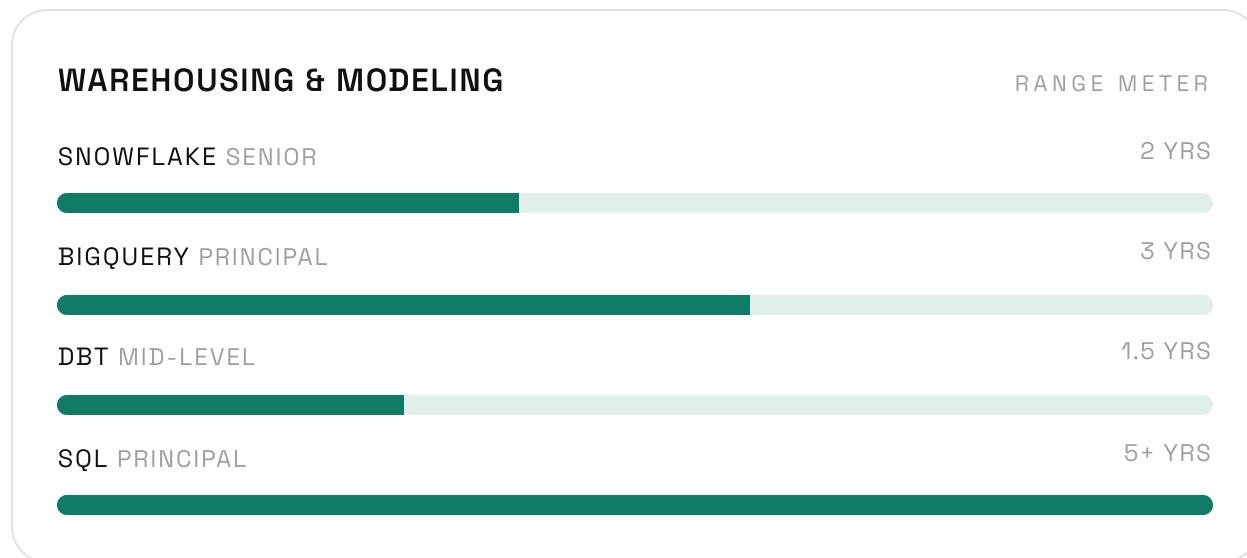
RAG

Healthcare supply chain

Heart failure dashboards, Vizient mortality pipelines, and an AI supply agent concept show the systems toolkit.

Systems + tools

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



TREASURE DATA CDP SENIOR	2 YRS
APIS & WEB APPS MID-LEVEL	2 YRS

LAKEHOUSES		CLOUD COMPUTE	
BIGQUERY	PRINCIPAL	GCP	PRINCIPAL
●●●●●		●●●●●	
3 YRS		4 YRS	
SNOWFLAKE	SENIOR	AZURE	MID-LEVEL
●●●●●		●●●●●	
2 YRS		1 YRS	
TREASURE DATA CDP	SENIOR	AWS	ASSOCIATE
●●●●●		●●●●●	
2 YRS		0.5 YRS	
DBT	MID-LEVEL	CLOUD FUNCTIONS	MID-LEVEL
●●●●●		●●●●●	
1.5 YRS		2 YRS	
DATA SCIENCE PLATFORMS		BI AND DATA VIZ	
SQL	PRINCIPAL	EXCEL	PRINCIPAL
●●●●●		●●●●●	
5+ YRS		5+ YRS	
PYTHON	PRINCIPAL	MATPLOTLIB	PRINCIPAL
●●●●●		●●●●●	
5+ YRS		5+ YRS	
JULIA	SENIOR	LEAFLET	SENIOR
●●●●●		●●●●●	
3 YRS		3 YRS	
JUPYTER	PRINCIPAL	SEABORN	SENIOR
●●●●●		●●●●●	
5+ YRS		4 YRS	
SAS	MID-LEVEL	LOOKER	MID-LEVEL
●●●●●		●●●●●	
2 YRS		1 YRS	
SPSS	MID-LEVEL	PLOTLY	MID-LEVEL
●●●●●		●●●●●	
2 YRS		2 YRS	
R	MID-LEVEL	POWER BI	SENIOR
●●●●●		●●●●●	
2 YRS		2 YRS	

GRAPH ANALYSIS

NETWORKX



5 YRS

NEO4J



3 YRS

PRINCIPAL

SEASONAL FORECASTING

SENIOR



3 YRS

SENIOR

(NON-) PARAMETRIC TESTING

SENIOR



4 YRS

TOPIC MODELING

SENIOR



3 YRS

AI DEVELOPMENT

RETRIEVAL-AUGMENTED
GENERATION

MID-
LEVEL



1 YRS

AGENTIC MODEL DESIGN

MID-LEVEL



1 YRS

Coverage spans lakehouses, AI development, BI activation, graph analysis, and clinical metric modeling.

E D . O 4

Education

BA, Political Science

University of Central Florida
August 2017

Statistics Specialization

University of Central Florida
August 2018

Python 3 Specialization

University of Michigan
January 2020

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

University of Central Florida foundations plus Michigan's Python specialization for applied analytics.

P B . O 5

Publication

Turkish Kurdish Analysis Database

Peace Economics, Peace Science and Public Policy • 2019
[Read the paper \(<https://doi.org/10.1515/peps-2019-0036>\)](https://doi.org/10.1515/peps-2019-0036)

Gender-based violence research published via Peace Economics, Peace Science & Public Policy.

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