Richard A. Powell

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PROFESSIONAL SUMMARY:

Data Scientist with a Master's in Data Science and 10+ years of experience in healthcare IT. Adept at solving complex problems using Python, SQL, and machine learning. Skilled in translating real-world business needs into actionable data workflows. Experienced in Epic EMR systems, project ownership, and technical communication with clinical and engineering stakeholders. Eager to apply data science capabilities across a wide range of domains, bringing value through actionable insights, automation, and predictive modeling. Open to remote, hybrid, or in-office roles. Featured in UMD Data Science Program Spotlight Video (link)**.**

EDUCATION:

University of Maryland, College Park, MD — December 2024
Master of Science, Data Science and Analytics — *GPA 3.87*
Relevant Coursework: Probability and Statistics, Data Representation and Modeling, Big Data Systems, Algorithms for Data Science, Natural Language Processing, Deep Learning, Communication in Data Science and Analytics, Cloud Computing

St. Lawrence University, Canton, NY — May 2012
Bachelor of Science, Mathematics and Economics — *GPA 3.54*
Graduated Cum Laude with Honors in Mathematics

WORK EXPERIENCE:

Boston Medical Center, Boston, MA — December 2019 - May 2022
Senior Application Analyst

- Led Epic Radiant module implementation, collaborating with stakeholders to translate clinical needs into healthcare workflows for over 300 providers, including physicians, nurses, scheduling staff and billers.
- Designed and iterated on electronic documentation tools, improving provider efficiency and data capture quality.
- Oversaw system testing and release cycles, coordinating unit, integration, and regression testing.
- Provided on-site and remote support during go-live events, prioritizing high-impact issues and user feedback.

Boston Medical Center, Boston, MA — September 2015 - December 2019
Application Analyst II

- Managed Electronic Medical Record (EMR) build/configuration for cardiology, ophthalmology and ambulatory workflows.
- Participated in multiple version upgrades: reviewed specs, migrated build, tested systems, and trained users.
- Developed a documentation process to capture obesity data, enabling accurate Accountable Care Organization (ACO) billing and reporting. This led to an increase in ACO funding from the state by over 1M/year.
- Mentored junior analysts and supported hiring by interviewing technical candidates.

Dartmouth-Hitchcock Medical Center, Lebanon, NH — August 2012 - August 2015
Application Systems Analyst

- Primary Epic analyst for ophthalmology, working closely with clinicians to design and support specialty-specific workflows.

PROJECTS:

NFL Receiving Statistics Projections (link)
Final Project for General Assembly Data Science Certificate: Built multiple models in Python to predict NFL player receptions, yardage, and touchdowns for 2022 NFL season. Conducted EDA and feature engineering on historical data, and evaluated model performance using R^2 metrics. Currently updating for the 2025 season.

Graph Traversal with Gremlin (link)
Final Project for Big Data Systems Masters Class: Used Docker to deploy Apache TinkerPop with Gremlin and constructed a graph database to model real-world relationships. Wrote queries to explore graph structures and apply traversal algorithms.

TECHNICAL SKILLS:

Languages: Python (pandas, NumPy, scikit-learn, matplotlib, seaborn, TensorFlow, Keras), SQL, R, Matplotlib
Tools/Platforms: Jupyter Notebooks, Git, Docker, AWS (EC2, S3), Tableau, Apache TinkerPop/Gremlin
Techniques: Regression, Classification, Clustering, Deep Learning, NLP, Time Series Analysis, Data Visualization, Data Cleaning
Databases: PostgreSQL, MongoDB (NoSQL)
Certifications: University of Maryland Graduate Certificate in Data Science, General Assembly Data Science Immersive