

# Ben Bubnick

DATA SCIENCE · DATA CURATION · DATA INTEGRATION

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## Summary

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|------------------------------|---|
| <b>Database Design</b>       | ETL/EDW design with SSIS/SQL/T-SQL/PostgreSQL in CI/CD pipeline   |
| <b>SME/Utility Roles</b>     | AI & Machine Learning, Data Curation/Wrangling & Integration      |
| <b>Big Data Platform</b>     | Python, Pig, Ruby, kafka, and Hive/Impala on Hadoop & Azure       |
| <b>Health Care Analytics</b> | HEDIS Measures & Tailored Analytics from EMR, HL7, 837, CMS, etc. |
| <b>Demonstrated Success</b>  | Lab Services Award, Eminence and Excellence Award, Honey Badger   |

## Experience

### Merative LP

DATA SCIENTIST

Tools: Python, Azure, Postman

*Clinical Operations*

*Jul. 2022 - Present*

Created testing framework for ETL & implementation processes on new data platform, and led HIPAA patient deidentification project from 200+ million individual patients for content analytics.

### IBM

ADVISORY DATA SCIENTIST

Technical lead on delivery of Cognitive & AI led programs using diverse data sources, such as electronic health record data, insurance claims data, scheduling and financial data, and social determinants of health data.

*Healthcare Data Analytics*

*Jun. 2015 - Jul. 2022*

#### Advisory Data Scientist

Tools: Python, GoLang, Azure, Docker, K8s, C#, SQL/PostgreSQL, Tableau

*Nov. 2021 - Jul. 2022*

- Created machine learning Covid-19 tool that reduced need for hospitalization identification
- Led delivery on tailored analytics and reporting project for client administrative data
- Developed data migration validation analysis on 150+ billion patient records
- Developed surgical smart case card using combined CNN/RNN model

### Promotion Senior Data Curation Architect

Tools: Gradle, Python/R, Hadoop/HDFS, Hive/Impala, Spark, kafka, Docker, K8s, Elasticsearch, Kibana, SQL

*Dec. 2020 - Nov. 2021*

Senior member of Data Onboarding & Governance for integration of healthcare data and enrichment of metadata. Configuration of data models, analytics, reports, and visualizations.

- Developed clinical data integration of 100+ billion structured & semi-structured records
- Developed topic modelling project on nearly 6 million semi-structured provider notes data
- Curated 25 pages of AI workflow documentation and mentored new hires in AI tuning process
- Created AI Surgical Scheduling Optimization tool currently evolving into new offering

#### Data Curation Architect

Tools: Ruby, Pig, Java, Gradle, Perl, Hadoop/HDFS, SQL/SSIS/Oracle, NoSQL, Hive/Impala, kafka, Elasticsearch, Kibana

*Nov. 2017 - Nov. 2020*

Lead member of Data Onboarding & Governance, member of the Watson Foundation for Health Solutions Architecture team.

- Managed multi-org enterprise integration with over 70 interconnected data sources
- Developed new data validation and review process that reduced total rework by 25%
- Reduced mapping rework by 45% with through new knowledge-driven initiatives

## Software Developer

Sep. 2016 - Sep. 2017

Tools: Ruby, Pig, Java, Perl, Jenkins, Hadoop/HDFS/CDH, SQL/mysql/Oracle, DB2, IMS, PL/SQL

Technical delivery lead for client integrations which has included the ordering, installation, and configuration of required hardware, including VPN devices to support client integrations.

- Reduced time spent on knowledge transfer by ~80% by reorganizing project documentation
- Eliminated need for a \$30,000 annual contract by developing data curation tool
- Reduced cost-per-hire by \$5,210 by re-developing education program

## Data Scientist

Nov. 2015 - Sep. 2016

Tools: Ruby, Pig, Hadoop/HDFS/CDH, Shell, SQL/mysql/Oracle, Jenkins, Java

Data Ingestions, pre-analytic enrichments, analytic augmentation, data governance, and implementation of assigned client integrations.

- Managed team of 12 remote data science contractors for 36 integration projects
- Created over 125 new knowledge base articles, making up 30% of the team's online content
- Developed automated data integration tool to cut out 28% unnecessary development time

## Data Scientist Consultant

Jun. 2015 - Nov. 2015

Tools: Ruby, Pig, Hadoop/HDFS, React, NodeJS, JavaScript, Shell, SQL, Oracle, Jenkins

Identified clinical, financial, and operational data elements within different health provider systems to develop data transformations and providing meaning to the data.

- Developed cron-based widget to define blackout periods for client data pulls
- Performed troubleshooting on production issues across multiple environments
- Principal integration specialist for 10+ client database warehouses

## Software Engineer

AmTrust Financial Services

COMMERCIAL PACKAGE POLICIES

Mar. 2014 - Jun. 2015

Tools: VB.NET, ASP.NET, C#, CSS, Javascript, HTML5, SQL, PL/SQL

Created multi-tier MVC components and web forms for commercial insurance policy generating software.

## Color Scientist

PPG

AUTOMOTIVE REFINISH

Apr. 2012 - Jun. 2013

Tools: VB.NET, C#, SQL, C++, FORTRAN

Developed radiative transfer models, spectroscopic profile analysis, and cross-instrument correlation software.

## Research Assistant

University of Cincinnati

DEPARTMENT OF PHYSICS

Sep. 2006 - Sep. 2010

Tools: FORTRAN, Dataplot, IRAF, IDL, JMP, LabVIEW, Maple, Mathematica, MATLAB, PDL, SAS/GRAPH

Gathered data in the short-wavelength, crossdispersed mode SXD on a 0.8–5.4  $\mu\text{m}$  spectrograph at NASA IRTF.

## Education

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### Certification in Data Science

IBM

CAPSTONE: SURGICAL SCHEDULING OPTIMIZATION AND PROCEDURE DURATION PREDICTION

2022

### Certification in Data Science

Johns Hopkins University

CAPSTONE: AI PAINT FORMULA PREDICTION FROM SPECTROSCOPIC MEASUREMENTS

2015

### Master of Science in Astrophysics

University of Cincinnati

THESIS: MASSIVE STELLAR CLUSTERS IN THE DISK OF THE MILKY WAY GALAXY

2010

