

# Ben Bubnick

DATA SCIENCE · DATA CURATION · DATA INTEGRATION

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## Summary

<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

Jul. 2022 - Present

#### DATA SCIENTIST

Python, Azure, Postman

Technical lead on the delivery of large & complex AI and Cognitive led transformation programs and works with Merative & Partners to optimize tools and delivery methods.

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

### IBM

Jun. 2015 - Jul. 2022

#### ADVISORY DATA SCIENTIST

Nov. 2021 - Jul. 2022

Python, GoLang, Azure, Docker, SQL/PostgreSQL, Tableau

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, social determinants of health data.

- 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

Dec. 2020 - Nov. 2021

#### Promotion SENIOR DATA CURATION ARCHITECT

Gradle, Python, Hive/Impala, Spark, kafka, Kibana, SQL

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

Nov. 2017 - Dec. 2020

#### DATA CURATION ARCHITECT

Ruby, Pig, SQL/SSIS/Oracle, Hive/Impala, kafka, Kibana

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 - Nov. 2017*  
*Ruby, Pig, Perl, Jenkins, SQL/MySQL/Oracle, DB2, 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*  
*Ruby, Pig, Jenkins, Hadoop/HDFS/CDH, SQL/MySQL/Oracle*

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*  
*Ruby, Pig, React, NodeJS, JavaScript, 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.

## AmTrust Financial Services

### SOFTWARE ENGINEER

*Mar. 2014 - Jun. 2015*  
*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.

## PPG Industries

### COLOR SCIENTIST

*Apr. 2012 - Jun. 2013*  
*VB.NET, C#, SQL, C++, FORTRAN*

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

## University of Cincinnati

### RESEARCH ASSISTANT

*Sep. 2006 - Sep. 2010*  
*FORTRAN, IRAF, IDL, JMP, LabVIEW, Maple, Mathematica, PDL*

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

## Awards

2018 - 2022	<b>Gold Champion</b> , For 1,477 classroom hours and earning 43 digital credentials	<i>IBM</i>
2018	<b>Lab Services Award</b> , For coordinating internal teams to deliver on time	<i>IBM</i>
2017	<b>Eminence and Excellence Award</b> , For developing a new data curation tool	<i>IBM</i>
2012	<b>Color Lab Automation Award</b> , For expanding data collection and analysis reports	<i>PPG Industries</i>
2010	<b>Mary J. Hanna Fellowship</b> , For STEM students pursuing research-based Masters	<i>UC</i>

## Education

2022	<b>Certification</b> , Data Science	<i>IBM</i>
2015	<b>Certification</b> , Data Science	<i>Johns Hopkins University</i>
2010	<b>Master of Science</b> , Astrophysics	<i>University of Cincinnati</i>
2004	<b>Bachelor of Fine Arts</b> , Printmaking	<i>Ohio University</i>