# Ben Bubnick

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### **Summary**\_

**Database Design** ETL/EDW design with SSIS/SQL/T-SQL/PostgreSQL in CI/CD pipeline **SME/Utility Roles** Al & Machine Learning, Data Curation/Wrangling & Integration **Big Data Platform** Python, Pig, Ruby, kafka, and Hive/Impala on Hadoop & Azure **Health Care Analytics** HEDIS Measures & Tailored Analytics from EMR, HL7, 837, CMS, etc. **Demonstrated Success** 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

DATA SCIENTIST, DATA CURATION ARCHITECT

Nov. 2021 - Jul. 2022

#### ADVISORY DATA SCIENTIST

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, Piq, 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

Sep. 2016 - Nov. 2017

#### SOFTWARE DEVELOPER

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

Nov. 2015 - Sep. 2016

DATA SCIENTIST

Ruby, Pig, Jenkins, Hadoop/HDFS/CDH, SQL/mySQL/Oracle

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

- Managaed 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

Jun. 2015 - Nov. 2015

DATA SCIENTIST CONSULTANT

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**

*Mar. 2014 - Jun. 2015* 

SOFTWARE ENGINEER

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 Apr. 2012 - Jun. 2013

**COLOR SCIENTIST** 

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

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

### **University of Cincinnati**

Sep. 2006 - Sep. 2010

RESEARCH ASSISTANT

FORTRAN, IRAF, IDL, JMP, LabVIEW, Maple, Mathematica, PDL

Gathered data in the short-wavelength, crossdispersed mode SXD on a 0.8–5.4 µm spectrograph at NASA IRTF.

### Volunteer

**CSforAll** 

Oct. 2018 - May. 2019

INSTRUCTOR

Our goal was to provide computer science instruction in all of the District's high schools, with a special emphasis on students who do not have access to a computer or a stable Internet connection at home.

HIT in the CLE

Mar. 2017 - Mar. 2019

Соасн

We were using a data science competition to educate students understand the potential of a career in health information technology and to assist IT companies in Northeast Ohio in developing a talent pipeline.

Code for America Jan. 2015 - Jun. 2015

ETL GUILD

The initiative was brought about to apply data science tools to improve and expand public record access.

#### T.C.P. World Academy

Sep. 2008 - May. 2009

**TUTOR** 

Our goal was to teach students how to understand the value of their learning experience and becoming academically involved by participating in society simulation activities for higher learning.

2018 - 2022 2018 2017 2012 2010	Gold Champion, For 1,477 classroom hours and earning 43 digital credentials  Lab Services Award, For coordinating internal teams to deliver on time  Eminence and Excellence Award, For developing a new data curation tool  Color Lab Automation Award, For expanding data collection and analysis reports  Mary J. Hanna Fellowship, For STEM students pursuing research-based Masters	IBN IBN IBN PPG Industries UC
Talks_		
"An algorithm <b>REACH Ini</b> Analyze patie	non 2020: Surgery Scheduling Optimization  uses past utilization and current waitlist info to predict surgery duration.  tiative: IBM Watson Care Insights  nt records and real-time data via HL7 feeds, integrate insights into physician's EHR workflow.	Dec. 2020 IBM 2019 IBM
Introduction of <b>2018 Inno</b>	Data Analytics Learning Exchange of implementation of machine learning algorithms using real-world health data analytics.  vation Research Interchange Fall Networks Conference extract insight from unstructured data and transform it from a data lake.	2018 IBM Sep. 2018 IR
<b>Cross Tear</b>	<b>n Training Series</b> s on using Hadoop for data ingestion that shows advantages of data lakes.	2016 Explorys
Publica Surgical S		Dag 2020
Improvement Process ar	cheduling Optimization and Procedure Duration Prediction a on traditional fixed ratio methods for total procedure time estimation.  Ind Requirements for CCD Data Integration  Index requirements for overcoming the many difficulties with CCD data curation.	Dec. 2020 IBM Oct. 2017 IBM
Naive bayesid Character	ormula Prediction from Spectroscopic Measurements ban color and effects matching algorithm of complex automotive paint formula.  ization of Surface Coatings using RT Models for Color Matching  n of Chandrasekhar RT model for atmospheric scattering applied to color matching.	May. 2015 SHINYAPPS.IC Dec. 2012 USPTC
Massive St Spectroscopio	tellar Clusters in the Disk of the Milky Way Galaxy c c and Photometric analysis of two open clusters in the galactic plane. ared Spectroscopy of Candidates Members of the Galactic Cluster	Dec. 2010 ОнюLINK ЕТС Feb. 2008
A Novel M	107   classification spectra for candidate members and comparative 2MASS photometry.   ethod for Low-Toxic Photo-Etch Printing d   faquatint etching techniques to photo-etch procedures.	PASF May. 2003 MAPO

## **Education**\_\_\_\_\_

2022	Certification, Data Science <sup>a</sup>	IBM
2015	<b>Certification</b> , Data Science <sup>b</sup>	Johns Hopkins University
2010	<b>Master of Science</b> , Astophysics <sup>c</sup>	University of Cincinnati
2004	<b>Bachelor of Fine Arts</b> , Printmaking <sup>d</sup>	Ohio University