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 **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

Created testing framework and HIPAA pateint deidentification for ETL/Implementation on new data platform.

IBM

Jun. 2015 - Jul. 2022

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, and any other relevant sources.

- 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

Health Solutions Architecture team.

Ruby, Pig, SQL/SSIS/Oracle, Hive/Impala, kafka, Kibana Lead member of Data Onboarding & Governance, member of the Watson Foundation for

- 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

CSforAllInstructor

Oct. 2018 - May. 2019

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 CLEMar. 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 | Gold Champion , For 1,477 classroom hours and earning 43 digital credentials | IBN |
|----------------|---|---------------------------------|
| 2018 | Lab Services Award, For coordinating internal teams to deliver on time | IBN |
| 2017 2012 | Eminence and Excellence Award , For developing a new data curation tool Color Lab Automation Award , For expanding data collection and analysis reports | IBM PPG Industries |
| 2010 | Mary J. Hanna Fellowship, For STEM students pursuing research-based Masters | UC |
| Talks_ | | |
| | on 2020: Surgery Scheduling Optimization | Dec. 2020 |
| _ | uses past utilization and current waitlist info to predict surgery duration. | IBM |
| | iative: IBM Watson Care Insights | 2019 |
| | nt records and real-time data via HL7 feeds, integrate insights into physician's EHR workflow. | IBM |
| | Data Analytics Learning Exchange | 2018 |
| | f implementation of machine learning algorithms using real-world health data analytics. | IBM |
| | vation Research Interchange Fall Networks Conference extract insight from unstructured data and transform it from a data lake. | Sep. 2018 IR |
| 0 | n Training Series | 2016 |
| | on using Hadoop for data ingestion that shows advantages of data lakes. | EXPLORYS |
| Publica | tions | |
| _ | cheduling Optimization and Procedure Duration Prediction ^a | Dec. 2020 |
| | on traditional fixed ratio methods for total procedure time estimation. | IBM |
| | d Requirements for CCD Data Integration | Oct. 2017 |
| | requirements for overcoming the many difficulties with CCD data curation. | IBM |
| | rmula Prediction from Spectroscopic Measurements b | May. 2015 |
| - | n color and effects matching algorithm of complex automotive paint formula. | SHINYAPPS.IC |
| | zation of Surface Coatings using RT Models for Color Matching of Chandrasekhar RT model for atmospheric scattering applied to color matching. | Dec. 2012 USPTC |
| , , | ellar Clusters in the Disk of the Milky Way Galaxy ^c | Dec. 2010 |
| | and Photometric analysis of two open clusters in the galactic plane. | OHIOLINK ETC |
| | red Spectroscopy of Candidates Members of the Galactic Cluster | |
| [BDS2003] | | Feb. 2008 |
| Near-infrared | classification spectra for candidate members and comparative 2MASS photometry. | PASF |
| | ethod for Low-Toxic Photo-Etch Printing ^d aquatint etching techniques to photo-etch procedures. | <i>May.</i> 2003 MAPC |
| Educat | ion | |

| 2022 | Certification, Data Science ^a | IBM |
|------|---|--------------------------|
| 2015 | Certification , Data Science ^b | Johns Hopkins University |
| 2010 | Master of Science , Astophysics ^c | University of Cincinnati |
| 2004 | Bachelor of Fine Arts, Printmaking ^d | Ohio University |