Ben Bubnick

DATA SCIENCE · DATA CURATION · DATA INTEGRATION

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Summary

Database Design	ETL/EDW design with SSIS/SQL/T-SQL/PostgreSQL in CI/CD pipeline
SME/Utility Roles	AI & 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

	ADVISORY DATA SCIENTIST	*Nov. 2021 - Jul. 2022*
Promotion	SENIOR DATA CURATION ARCHITECT	*Dec. 2020 - Nov. 2021*
	DATA CURATION ARCHITECT	*Nov. 2017 - Dec. 2020*
	SOFTWARE DEVELOPER	*Sep. 2016 - Nov. 2017*
	DATA SCIENTIST	*Nov. 2015 - Sep. 2016*
	DATA SCIENTIST CONSULTANT	*Jun. 2015 - Nov. 2015*

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.

- Developed new data validation and review process that reduced total rework by 25%
- Reduced mapping rework by 45% with through new knowledge-driven initiatives
- 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
- 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

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
INSTRUCTOR *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 CLE
COACH *Mar. 2017 - Mar. 2019*

 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
ETL GUILD *Jan. 2015 - Jun. 2015*

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

T.C.P. World Academy
TUTOR *Sep. 2008 - May. 2009*

 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.

Awards

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

Talks

AI Hackathon 2020: Surgery Scheduling Optimization *Dec. 2020*
"An algorithm uses past utilization and current waitlist info to predict surgery duration. IBM

REACH Initiative: IBM Watson Care Insights *2019*
Analyze patient records and real-time data via HL7 feeds, integrate insights into physician's EHR workflow. IBM

Content & Data Analytics Learning Exchange *2018*
Introduction of implementation of machine learning algorithms using real-world health data analytics. IBM

2018 Innovation Research Interchange Fall Networks Conference *Sep. 2018*
Using NLP to extract insight from unstructured data and transform it from a data lake. IRI

Cross Team Training Series *2016*
A 7-part series on using Hadoop for data ingestion that shows advantages of data lakes. EXPLORYS

Publications

Surgical Scheduling Optimization and Procedure Duration Prediction [a] *Dec. 2020*
Improvement on traditional fixed ratio methods for total procedure time estimation. IBM

Process and Requirements for CCD Data Integration *Oct. 2017*
Processes and requirements for overcoming the many difficulties with CCD data curation. IBM

AI Paint Formula Prediction from Spectroscopic Measurements [b] *May. 2015*
Naive bayesian color and effects matching algorithm of complex automotive paint formula. SHINYAPPS.IO

Characterization of Surface Coatings using RT Models for Color Matching *Dec. 2012*
Approximation of Chandrasekhar RT model for atmospheric scattering applied to color matching. USPTO

Massive Stellar Clusters in the Disk of the Milky Way Galaxy [c] *Dec. 2010*
Spectroscopic and Photometric analysis of two open clusters in the galactic plane. OHIOLINK ETD

Near-Infrared Spectroscopy of Candidates Members of the Galactic Cluster [BDS2003] 107 — *Feb. 2008*
Near-infrared classification spectra for candidate members and comparative 2MASS photometry. — PASP

A Novel Method for Low-Toxic Photo-Etch Printing [d] — *May. 2003*
Application of aquatint etching techniques to photo-etch procedures. — MAPC

Education

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*