

Ben Bubnick

DATA SCIENTIST · HEALTHCARE ANALYTICS · TRAINING SPECIALIST

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"I want to use my 15 years experience to reimagine healthcare by creating, assembling, and improving our business relationships through data science. I believe that when I inspire people to do the things that inspire them, we can improve the relationship between caregiver and patient."

Summary

Professional Summary	Data Science, Curation & Architecture, Analytics & AI/ML Training
Core Competencies	Cognitive Practitioner, Metrics Improvement, Agile Development, Training Development
Industries	Health Care, Financial & Insurance, Chemicals Manufacturing, R&D/Scientific Research
Demonstrated Past Success	Subject Matter Expert, Lab Services Award Winner, Eminence and Excellence Award Winner

I manage client resources and transform data from heterogeneous systems into tangible business value by analyzing information, communicating outcomes, and collaborating on product development. I also lead the technical delivery of client integrations which has included the ordering, installation, and configuration of required hardware, including VPN devices to support client integrations.

Experience

Data Science

IBM

WATSON HEALTH

Nov. 2021 - PRESENT

Senior member of Data Onboarding & Governance integration of healthcare data and enrichment of metadata. Configuration of data models, analytics, reports, and visualizations. SME to project data architects, delivery, analytics, integration, etc. Directs the configuration of the data onboarding platform and associated infrastructure, and develop improvements to advance stakeholder's business priorities using tailored analytics.

- Led cross-function team as clinical data analyst for 2020/2021 measure updates project
- Created machine learning Covid-19 tool that reduced need for hospitalization identification time by up to two weeks
- Created AI Surgical Scheduling Optimization tool currently evolving into new offering
- Developed large clinical data integration in excess of several 100 billion structured and semi-structured records for life sciences analytics projects
- Led HIPAA patient deidentification project from more than 100 data sources for content analytics and measures
- Served in an advisory capacity for new data platform development project

Data Curation & Architecture

IBM

WATSON HEALTH

Oct. 2017 - Nov. 2021

Lead member of Data Onboarding & Governance, member of the Watson Foundation for Health Solutions Architecture team. Remediation of data issues during UAT. Built the data onboarding platform and associated infrastructure, and developed improvements to reducing customer implementation cycle time and data triage activities, and report on the "health of the data" during data onboarding. Tune machine learning classification algorithms for patient matching, and led the internal review of similar work by my peers.

- Reduced mapping rework by 45% with through new knowledge-driven initiatives
- Developed new data validation and review process that reduced total rework by 25%
- Managed and developed ambitious multi-org enterprise with over 70 interconnected, project-sized components
- Awarded AI certification to peer review tuning algorithm and reviewed over 50% of projects in the last 2 quarters
- Curated 25 pages of AI workflow documentation and mentored new hires in AI tuning process
- Awarded Lab Services Award for coordinating internal project teams to deliver client needs on time

Data Engineering

IBM

EXPLORYS

Jun. 2015 - Oct. 2017

Data Ingestions, pre-analytic enrichments, analytic augmentation, and data governance. Identified and extracted key data from multiple heterogeneous systems; and led technical requirements gathering, data discovery, documentation, and implementation of assigned client integrations. Ordered and oversaw installation of & configuration of required hardware, including VPN devices to support client integrations. Configuration and development of software necessary to support client integrations.

- Eliminated need for a \$30,000 annual contract by developing data curation tool
- Principal integration specialist on over 60 projects for 20 different clients
- Chosen as team lead for ~12 remote data science contractors for 36 integration projects throughout 2015 - 2017
- Created over 125 new knowledge base articles, making up 30% of the team's online content
- Reduced time spent on knowledge transfer by ~80% by reorganizing project documentation
- Awarded Eminence and Excellence Award in 2017 for analytics project

Data Integration Training

IBM

WATSON HEALTH, EXPLORYS

Sep. 2016 - Jun. 2018

Project Management for technical training, providing both basic and advanced software training, along with consulting through cross-team and other training/presentation settings. Designed and managed the internal training, an effective onboarding program, and cross-team development training. Focus on HDFS technologies: Pig, Hive & Impala, Ruby & Java.

- Eliminated average of 3 weeks from employee onboarding process
- Reduced cost-per-hire by \$5,210 by re-developing education program
- Spearheaded new-hire mentoring program that led to ~4,500 increase in total billable hours
- Trained 60% of current data curation teams, including multiple managers

Software Engineering

AmTrust Financial Services

COMMERCIAL PACKAGE POLICIES

Mar. 2014 - Jun. 2015

Developed web forms for insurance industry using ISO standards and created multi-tier MVC components, Web APIs, and UIs using VB, ASP, Javascript, & HTML5

- Development on two software architecture projects in 2015 and principal developer on offering product in 2014
- Developed over 65 ISO rating based web forms for insurance industry
- Collaborated with developers and business analysts to prioritize needs
- Steered development group into a unit testing project on multi-tier MVC components in 2014

Color Science

PPG Industries

AUTOMOTIVE REFINISH

Apr. 2012 - Jun. 2013

Developed software and radiative transfer models on complex paint mixtures to determine formulation methods and for spectroscopic profile analysis on color match samples.

- Improved color matching classification algorithm performance by 40% through new numerical methods
- Wrote and filed application for patent on the application of the Radiative Transfer Equation (Chandrasekhar) to automotive coatings classification models
- Developed cross-instrument correlation software for risk analysis project
- Awarded Color Lab Automation Award in 2012 for color matching laboratory opening

Adjunct Professor

various colleges

LORAIN COUNTY COMMUNITY COLLEGE, MIAMI UNIVERSITY, CINCINNATI STATE TECHNICAL AND COMMUNITY COLLEGE

Aug. 2010 - May. 2019

Developed curricula in introductory physics & astronomy courses, and technical presentations of complex physical concepts for major, non-major, and remedial students. Wrote concise laboratory instruction manuals, trained in precise measurement techniques & data analysis using DataStudio, and coordinated analysis documentation.

- Exceeded feedback evaluation goals by an average of 16% in 2017 and by 17% in 2018
- Tracked a 28% reduction in student confusion by reorganizing online education materials
- Uploaded over 700 hours of lecture material for convenient consumption

Scientific Research

University of Cincinnati

DEPARTMENT OF PHYSICS

Sep. 2006 - Sep. 2010

Gathered data using SpeX, a 0.8–5.4 μm spectrograph, at the NASA Infrared Telescope Facility. Observations in the short-wavelength, crossdispersed mode SXD. Multiple analysis projects comparing 2MASS with measured data, statistical classification without independent photometry for cluster properties, and photometric analysis bootstrapped to independent measurements.

- Volunteered 120 hours of Quality Control for the Cambridge Astronomical Survey Unit Variable Stars database
- Published 3 scholarly articles on near-infrared astrophysics over a 24-month period
- Awarded Hanna Research Fellowship in 2010

Education

Master of Science in Physics

University of Cincinnati

McMICKEN COLLEGE OF ARTS AND SCIENCES

2008 - 2010

- Thesis - Massive Stellar Clusters in the Disk of the Milky Way Galaxy

Bachelor of Fine Arts in Printmaking

Ohio University

COLLEGE OF FINE ARTS

2000 - 2004

- Thesis - A Novel Method for Low-Toxic Photo-Etch Printing

Certificate of Specialization in Data Science (MOOC)

Johns Hopkins University

BLOOMBERG SCHOOL OF PUBLIC HEALTH

2015 - 2016

- Capstone - A Machine Learning Algorithm for Paint Formula Prediction from Spectroscopic Measurements

Writing

Surgical scheduling optimization and procedure duration prediction

IBM

TECHNICAL DEVELOPMENT TEAM - TOTAL PROCEDURE TIME ESTIMATION

Dec. 2020

- Improvement on traditional fixed ratio methods for total procedure time estimation, using linear regression models based on relevant variables.

Process and Requirements for CCD Data Integration

IBM

LEAD INTEGRATION DEVELOPER

Oct. 2017

- Technical paper on processes and requirements, overcoming the many difficulties with flat file data curation of CCDs.

Characterization of Surface Coatings using Radiative Transfer Models for Color Matching

PPG

RADIATIVE TRANSFER PHYSICS

Dec. 2010

- Approximation of Chandrasekhar radiative transfer model for atmospheric scattering is applied to color matching. (U.S Patent Application)

Massive Stellar Clusters in the Disk of the Milky Way Galaxy

OhioLINK ETD

GRADUATE RESEARCHER

Dec. 2010

- Using spectroscopic and photometric analysis of two open clusters to determine the structure of the plane of the Milky Way Galaxy.

Near-Infrared Spectroscopy of Candidates Members of the Galactic Cluster [BDS2003] 107

PASP

UNDERGRADUATE RESEARCH ASSISTANT

Feb. 2008

- New near-infrared classification spectra for nine candidate members and comparative 2MASS photometry for several cluster members.

Talks

IBM Watson Care Insights Reach Initiative

Watson Health

TRAINER

Apr. - Sep. 2019

- Watson Care Insights aims to analyze longitudinal patient records and real-time data points through HL7 feeds to provide practitioners insights into the patient's data, and address these challenges by integrating within the physician's workflow in the electronic health record system.

Content & Data Analytics Learning Exchange

Watson Health

PEER PRESENTER

Apr. & May 2018

- Introduction of implementation of machine learning algorithms and their applications using real-world health data analytics examples.

2018 IRI Fall Networks Conference

Innovation Research Interchange

PRESENTER FOR THE INFORMATION SERVICES/INFORMATION TECHNOLOGY NETWORK TALKS

Sep. 2018

- Cognitive computing can use NLP to extract insights from the unstructured data that holds most of the relevant information, but also it can also perform the necessary transformation accurately at the earliest stages of the data integration pipeline.

Cross Team Training Series

Explorys

LEAD PRESENTER FOR THE METL GROUP

Sep. 2016

- Seven part series in data ingestion approach using the Hadoop software framework. Data can be aggregated much more quickly and cost-effectively using a data lake framework than in traditional data warehouses, because of the speed and low-cost of massively parallel computing.

Volunteer

Coding Community Classroom

CSforCLE/CMSD

INSTRUCTOR

2018/19

- Free after school coding classes for high school and middle school students in Cleveland and surrounding suburbs

High School Data Science Competition

HIT in the CLE

MENTOR

2018/19

- Students tackle a data challenge with support from professional health IT mentors, then present their creative analysis in front of a panel of judges.

RTAHeatMap project hosted by Open Cleveland

Code for America

ETL VOLUNTEER

2015

- Developers, designers, data geeks, leaders, and idea-makers who volunteer to help local government and civic orgs adopt open web technologies.

On-site after school tutoring for middle school students

T.C.P. World Academy

TUTOR

2008/09

- Providing a comprehensive layer of individualized academic support for all students.