

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
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, 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

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.

- 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

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.

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

Education

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