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 LP — *Clinical Operations*
DATA SCIENTIST — *Jul. 2022 - Present*

Tools: 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 — *Healthcare Data Analytics*
ADVISORY DATA SCIENTIST — *Jun. 2015 - Jul. 2022*

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, and social determinants of health data.

Advisory Data Scientist — *Nov. 2021 - Jul. 2022*

Tools: Python, GoLang, Azure, Docker, K8s, C#, SQL/PostgreSQL, Tableau

- 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

Promotion **Senior Data Curation Architect** — *Dec. 2020 - Nov. 2021*

Tools: Gradle, Python/R, Hadoop/HDFS, Hive/Impala, Spark, kafka, Docker, K8s, Elasticsearch, 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

Data Curation Architect
Nov. 2017 - Nov. 2020

Tools: Ruby, Pig, Java, Gradle, Perl, Hadoop/HDFS, SQL/SSIS/Oracle, NoSQL, Hive/Impala, kafka, Elasticsearch, 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

Software Developer
Sep. 2016 - Sep. 2017

Tools: Ruby, Pig, Java, Perl, Jenkins, Hadoop/HDFS/CDH, SQL/mySQL/Oracle, DB2, IMS, 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

Data Scientist
Nov. 2015 - Sep. 2016

Tools: Ruby, Pig, Hadoop/HDFS/CDH, Shell, SQL/mySQL/Oracle, Jenkins, Java

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

Data Scientist Consultant
Jun. 2015 - Nov. 2015

Tools: Ruby, Pig, Hadoop/HDFS, React, NodeJS, JavaScript, Shell, 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.
- Developed cron-based widget to define blackout periods for client data pulls
- Performed troubleshooting on production issues across multiple environments
- Principal integration specialist for 10+ client database warehouses

Software Engineer
AmTrust Financial Services

COMMERCIAL PACKAGE POLICIES
Mar. 2014 - Jun. 2015

Tools: 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.

Color Scientist
PPG

AUTOMOTIVE REFINISH
Apr. 2012 - Jun. 2013

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

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

Research Assistant
University of Cincinnati

DEPARTMENT OF PHYSICS
Sep. 2006 - Sep. 2010

Tools: FORTRAN, Dataplot, IRAF, IDL, JMP, LabVIEW, Maple, Mathematica, MATLAB, PDL, SAS/GRAPH

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 client needs 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*

Education

Certification in Data Science   *IBM*
Capstone: Surgical Scheduling Optimization and Procedure Duration Prediction   *2022*

Certification in Data Science   *Johns Hopkins University*
Capstone: AI Paint Formula Prediction from Spectroscopic Measurements   *2015*

Master of Science in Astrophysics   *University of Cincinnati*
Thesis: Massive Stellar Clusters in the Disk of the Milky Way Galaxy   *2010*

Bachelor of Fine Arts in Printmaking   *Ohio University*
Thesis: A Novel Method for Low-Toxic Photo-Etch Printing   *2004*