BRADLEY SIMON

EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL | 2017 – 2021
BS, Information Systems
BS, Statistics

AWARDS

Valedictorian, Dual Degree Magna Cum Laude with Highest Distinction, Dean's List

CERTIFICATIONS

Snowflake SnowPro Core
Neo4j Certified Professional

CLOUD

AWS, Azure, GCP

LANGUAGES

SQL, Scala, PySpark, Python, C++, Java, R, JavaScript, HTML, CSS, Dart, C#

TECHNOLOGIES

Neo4j, Snowflake, Streamlit, K8S, RedHat, Databricks, Cloudera, Oracle, Dataproc, Apache (Hive, Spark, Kafka, NiFi, Flink), Scality, Git/GitHub, Matplotlib, Shiny Web Apps, Firebase, Flutter, Blockchain

SUMMARY

Self-motivated, detail-oriented and analytically-minded, I continually seek opportunities to align my business acumen with my passion for technology and big data. As a data practitioner, I utilize ETL, modeling, and visualization techniques to solve business problems, improve processes, and effectively communicate findings to business leaders.

PROFESSIONAL EXPERIENCE

Ernst & Young   Chicago, IL

Senior AI & Data Consultant   August 2023 – Present

- Support technical demonstrations and proof of concepts that lead to long-term project sales for some of the largest counties in the U.S.

- Architect and develop an integrated healthcare data hub in the Azure stack, composed of performant and scalable data pipelines, a star schema-based data model, BI reporting, and optimal security controls.

- Modernize a legacy criminal justice information system through the implementation of a graph operational data store, national data sharing standards, LLM chatbots, entity resolution, fine-grained access control, and containerization in Kubernetes.

- Analyze cutting-edge technologies and conduct market surveys of competitors for technical whitepapers and client solution proposals.

AI & Data Consultant   October 2022 – August 2023

- Developed an encrypted data ingestion process for sensitive personal heath data using Azure Event Grid Functions and onboarded both technical and business stakeholders.

- Optimized SQL queries and Azure Data Factory pipelines to reduce execution time and generate significant cost savings.

- Designed and architected database logging, user management, and access control policies that conform to the NIST security controls.

- Developed applications to visualize and analyze operational graph data stored in Neo4j.

- Created an XML schema conformant with the National Information Exchange Model (NIEM) to allow integration with third-party vendors and other government agencies across the U.S.

FTI Consulting   Chicago, IL

Data Scientist / Analytics Consultant   September 2021 – October 2022

- Led data engineering and analytics workstreams to deliver reliable and accurate insights to legal professionals around the globe.

- Developed and supported applications for users to track claims reconciliation processes and upload supporting documentation.

- Managed and designed relational databases, performed ETL, developed PL/SQL stored procedures and user-defined functions, and tuned existing PL/SQL procedures to greatly improve performance and reduce downtime.

- Automated extensive weekly reports and developed quality control measures in Python to increase accuracy, generate cost savings, and assist the client in meeting deadlines.

Independent Consultant   Chicago, IL

Data Scientist   May 2020 – September 2021

- Utilized Databricks and Apache Spark to estimate potential cost and environmental savings resulting from the sharing economy for specialty construction contractors in the United States.

- Trained machine learning models such as Random Forest Regression and Classification, KNN, and logistic regression in Python, and deployed them as web applications to enable real estate and construction stakeholders to easily generate predictions.

- Utilized AWS and Cloudera to produce actionable dashboards and analyses.