Blake Marsh

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Big Data Architect

Results-oriented Big Data Architect with a track record of designing and implementing scalable data architectures that drive significant improvements in data processing speed and storage costs. Proven expertise in developing real-time data pipelines and implementing advanced security measures, resulting in increased operational efficiency and reduced data breaches. Skilled in data governance, machine learning, and data visualization, with a strong focus on driving data-driven decision-making and improving customer engagement.

WORK EXPERIENCE

Big Data Architect   01/2023 – 04/2023
MegaByte Solutions

- Designed and implemented a scalable data architecture for a large e-commerce company, resulting in a 40% improvement in data processing speed and a 25% reduction in storage costs.
- Developed and deployed a real-time data pipeline to ingest and process streaming data, enabling the company to make data-driven decisions in near real-time and increasing operational efficiency by 30%.
- Implemented advanced data security measures, including encryption and access control policies, resulting in a 50% reduction in data breaches and ensuring compliance with industry regulations.

Data Warehouse Developer   09/2022 – 12/2022
QualityTest Engineers

- Lead the development of a data warehouse solution for a financial institution, enabling the analysis of large volumes of data and providing actionable insights to improve decision-making, resulting in a 20% increase in revenue and a 15% reduction in operational costs.
- Designed and implemented a data governance framework, ensuring data quality and consistency across the organization, and reducing data errors by 40%.
- Developed and deployed machine learning algorithms to automate data classification and prediction tasks, resulting in a 30% improvement in accuracy and efficiency.

Data Integration Specialist   07/2022 – 09/2022
ZenithZephyr Solutions

- Designed and implemented a data integration solution for a healthcare organization, enabling seamless data exchange between different systems and improving data accessibility, resulting in a 25% reduction in data retrieval time and a 20% increase in data availability.
- Developed and deployed a data visualization tool to provide interactive dashboards and reports, enabling stakeholders to gain insights from complex data sets and make informed decisions, resulting in a 35% improvement in data-driven decision-making.
- Implemented data mining techniques to identify patterns and trends in customer behavior, leading to the development of targeted marketing campaigns and a 30% increase in customer engagement.

SKILLS & COMPETENCIES

- Proficiency in Big Data technologies (Hadoop, Spark, Kafka)
- Expertise in data warehousing solutions
- Knowledge of data security measures and compliance regulations
- Proficiency in data integration and data exchange solutions
- Expertise in designing and implementing scalable data architectures
- Experience with real-time data pipelines
- Proficiency in data governance and ensuring data quality
- Knowledge of machine learning algorithms and automation
- Experience with data visualization tools and techniques
- Proficiency in data mining and pattern recognition
- Ability to develop and implement data strategies and systems
- Knowledge of cloud platforms (AWS, Google Cloud, Azure)
- Proficiency in SQL and NoSQL databases
- Strong understanding of ETL (Extract, Transform, Load) processes
- Knowledge of programming languages (Python, Java, Scala)
- Understanding of distributed systems and architecture
- Experience with performance tuning and optimization
- Strong problem-solving skills
- Excellent communication and leadership skills
- Ability to work in a team and collaborate effectively.

COURSES / CERTIFICATIONS

Certified Data Management Professional (CDMP)   08/2023
DAMA International

Hortonworks Certified Data Architect (HDPCA)   08/2022
Hortonworks

AWS Certified Big Data - Specialty   08/2021
Amazon Web Services (AWS)

EDUCATION

Bachelor of Science in Data Science   2016 - 2020
University of Rochester

Rochester, NY

Data Science
Computer Science