



# Dennis Barger

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## PROFESSIONAL BACKGROUND

Dennis has over 25 years experience delivering large-scale systems for processing and managing data. His experience includes technical leadership, delivery management and hands-on development of both cloud and on-premise data platforms for Fortune 500 companies. A key area of his expertise is building frameworks for governing the usage, security and ownership of data. He believes the success of any data platform is its ability to safely deliver information to users that is reliable and relevant. Many of his prior engagements have involved working with key stakeholders at every level in the organization to assess how data is used and implement solutions to improve the management of data assets. Examples of prior engagements include defining data governance strategies supporting AWS serverless data lake platforms; and designing master data management processes in AWS to significantly improve entity resolution.

## RELEVANT EXPERIENCE

### Data Governance Adviser – Big Data Platform Implementation for Healthcare

A nationwide healthcare analytics company spent two years building a big data platform for processing financial and clinical healthcare records of nearly 100M patients across the U.S. The value of the platform was to conduct in depth patient longitudinal analysis and predict potential billing fraud for insurance companies. Dennis was asked to assess the platform's data governance capabilities and identify any usage issues that could result in data breaches. As a result of the assessment, he designed a data governance framework and met with senior management to establish an implementation roadmap for the framework. Platform technologies included Cloudera Hadoop and AWS.

### Data Strategy Lead – Digital Transformation for Property Management

A leading real estate investment trust initiated a digital transformation across the entire business. One of the key objectives was to transform the legacy, on-premise business intelligence platform to a serverless AWS customer data platform. Dennis was responsible for assessing current state, designing the future state architecture, defining a strategy for data governance and creating an implementation roadmap. In addition, he created a strategy for resolving customer identity across all business functions enabling a unified view of the customer. Many of the company's properties resided in California therefore data governance policies and procedures had to adhere to CCPA guidelines.

### AWS Migration Delivery Manager for Consumer Web Applications

Due to significant business growth, a nationwide provider of web-based parking solutions was quickly out growing its legacy on-premise mobile platform. The company decided to migrate the platform from a third-party data center to AWS. Dennis led the overall migration strategy and deployment which represented the company's primary source of revenue. A key area of focus was maintaining strict user security around authentication, authorization and credit card payments. The production cutover was successfully completed with no impact to customers.

### Data Architect – Customer Personalization for Automotive

An industry-leading automotive digital marketer wanted to transform its analytical capabilities to support customer personalization with online vehicle auctions. This involved moving all digital technologies to AWS and implementing a serverless AI/Machine Learning data platform. Dennis was responsible for working with data science teams to move AI workloads to AWS. As part of the effort, he assessed the company's current strategies for identity and access management to define changes necessary for expanding usage. Changes included granting data scientist greater access to AWS resources without jeopardizing security. It also involved implementing new secure processes for ingesting third-party data governed by different legal constraints in comparison to existing data pipelines. Dennis provided technology leadership and advisement to senior management while also providing hands-on development for new data pipelines. Technologies included AWS IAM, Glue, Athena, EMR and RDS.

## FUNCTIONAL EXPERIENCE

- Digital Transformation
- Information Security
- Master Data Management
- Metadata Management
- Identity & Entity Resolution
- Cloud-based Data Architecture
- Agile Delivery Management

## INDUSTRY EXPERIENCE

- Automotive
- Healthcare
- Technology
- Financial Services
- Manufacturing
- Consumer Services

## TECHNOLOGIES

- AWS Microservice Architecture
- AWS Data Pipelines (Batch, Streaming)
- AWS Storage: S3, RDS, RedShift, DynamoDB
- AWS Processing: Glue, Kinesis, Lambda, Step Functions, EMR
- Databases: SQL Server, Oracle, MySQL, Netezza
- Languages: Python, Node.JS, R, SQL
- Cloudera Hadoop