Mark Berman

Application Architect - Enterprise Streaming Services at U.S. Bank

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Involved with information technology development for over 20 years . Experience in all phases of the application development life cycle, including leadership roles in requirements definition, application architecture, logical and physical design, test plan development and implementation. Experience also includes managing and leading an application architecture team and multiple teams of digital analytics analysts and developers.
 Architectural and development focus for the last two years has been in the areas of Big Data and event driven streaming data services leveraging the Hortonworks stack.

Completed a Master of Computer Science in Data Science in July 2019 from the University of Illinois at Urbana-Champaign.

Experience

U.S. Bank
SEP 2016 TO PRESENT
Application Architect - Enterprise Streaming Services

Currently serving as the product owner and lead architect for the Data Science Playground, a multiuser platform for model building, model training and model validation based Kubernetes, cloud native storage management and JupyterHub.

Developed architecture for enterprise level and event driven streaming data service. Streaming service is based the Hortonworks stack and leverages Kafka, NIFI , Spark, Hive and HBase.

Designed and coded major portions of the service.
Responsibilities also include creating design and code templates, developing proofs of concept and mentoring the development team.

U.S. Bank
JUN 2014 TO AUG 2016
Manager of Analytics and Data Technology

Responsibilities include management and strategic direction for the bank's digital analytics platforms. Other responsibilities include development manager for next generation targeted offer and messaging platform for customers and prospects.

US Bank
AUG 2002 TO MAY 2014
Application Architect

 Lead application architect for "Customer Express,"a major CRM initiative at the bank .
The application is used by the following consumer banking channels:
24 hour banking, branch banking and online banking. Responsible for all aspects of the application architecture.

Lead application architect for "SABER", the enterprise customer complaint tracking application at the bank.

The application's technology stack is comprised of a rich web client (HTML5, DOJO, Javascript), RESTFul and SOAP based web services, workflow and document management and host integration.

Responsible for all aspects of the application architecture.
Senior application architect for Consumer banking.
Responsible for the application architecture for major consumer banking technology initiatives that span the 24 banking, branch banking, online and mobile banking channels.

University of Illinois at Urbana-Champaign   2016 TO 2019
Master of Computer Science - Data Science

Macalester College   2007 TO 2010
Applied Mathematics

CS 513: Theory and Practice of Data Cleaning   JUL 2018
Coursera

CS 598: Cloud Computing Capstone   MAY 2019
Coursera

CS 598: Practical Statistical Learning   DEC 2018
Coursera

STAT 420: Statistical Modeling in R   JUL 2018
Coursera

CS 498: Applied Machine Learning   MAY 2018
Coursera

CS 498: Data Visualization   AUG 2017
Coursera

CS 498: Cloud Computing Applications   JUN 2017
Coursera

CS 410: Text Information Systems   JAN 2017
Coursera

Machine Learning With Big Data   JUN 2016
Coursera Course Certificates

Graph Analytics for Big Data (2015)   JUN 2016
Coursera

Introduction to Big Data Analytics   MAY 2016
Coursera Course Certificates