



CERTIFICATE *of* ACHIEVEMENT



Anthony D. Joseph

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This is to certify that

Oscar Mauricio Forero Carrillo

successfully completed and received a passing grade in

CS100.1x: Introduction to Big Data with Apache Spark

a course of study offered by BerkeleyX, an online learning
initiative of The University of California, Berkeley through edX.

VERIFIED CERTIFICATE
Issued July 10, 2015

Verify the authenticity of this certificate at
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