



CERTIFICATE *of* ACHIEVEMENT



A handwritten signature in black ink, reading 'Anthony D. Joseph'.

Anthony D. Joseph

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This is to certify that

Ahmad A.S.Tabieh

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
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