



CERTIFICATE *of* ACHIEVEMENT



Anthony D. Joseph

Professor in Electrical Engineering and Computer Science
University of California, Berkeley
Technical Advisor
Databricks

This is to certify that

Marek Hakala

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

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