Verified
Certificate

Berkeley

Anthony D. Joseph (signature)

Anthony D. Joseph

Professor in Electrical Engineering and Computer Science

University of California, Berkeley

This is to certify that

James McMurray

successfully completed and received a passing grade in

CS105x: Introduction to Apache Spark

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

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Issued September 14, 2016

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