



05/03/2020

Danylo Hulko

has successfully completed

Data Manipulation at Scale: Systems and Algorithms

a MOOC from the University of Washington and offered through Coursera

A handwritten signature in black ink, appearing to read 'Bill Howe'.

Bill Howe, Ph.D
Associate Director
eScience Institute
Affiliate Assistant Professor
Computer Science & Engineering
University of Washington

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/JQLH7UERE75

Coursera has confirmed the identity of this individual and
their participation in the course.