

COURSE CERTIFICATE

05/16/2020

Vitalii Kryvenko

has successfully completed

Data Manipulation at Scale: Systems and Algorithms

a MOOC from the University of Washington and offered through Coursera



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

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Coursera has confirmed the identity of this individual and $\mbox{their participation in the course}. \label{eq:course}$