Text Retrieval and Search Engines University of Illinois at Urbana-Champaign **Text Mining and Analytics** University of Illinois at Urbana-Champaign Algorithms on Graphs University of California San Diego National Research University Higher School of Economics Sequence Models deeplearning.ai Divide and Conquer, Sorting and Searching, and Randomized Algorithms Stanford University **Bayesian Statistics: From Concept to Data Analysis** University of California, Santa Cruz Shortest Paths Revisited, NP-Complete Problems and What To Do About Them Stanford University Graph Search, Shortest Paths, and Data **Structures** Stanford University **Greedy Algorithms, Minimum Spanning** Trees, and Dynamic Programming Stanford University **Probabilistic Graphical Models 1:** Representation Stanford University **Probabilistic Graphical Models 3:** Learning Stanford University **Machine Learning** Stanford University **Convolutional Neural Networks** deeplearning.ai Using Python to Access Web Data University of Michigan **Neural Networks and Deep Learning** deeplearning.ai Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization **Grade Achieved** deeplearning.ai **Probabilistic Graphical Models 2:** Inference Grade Achieved Stanford University Pattern Discovery in Data Mining University of Illinois at Urbana-Champaign **Applied Machine Learning in Python** University of Michigan **Robotics: Computational Motion Planning** University of Pennsylvania Introduction to Data Science in Python University of Michigan **Learning How to Learn** McMaster University & University of California San Diego Grade Achieved **Strategic Management** Grade Achieved Copenhagen Business School **Structuring Machine Learning Projects** deeplearning.ai The Data Scientist's Toolbox

VERIFIED CERTIFICATE OF COMPLETION August 9, 2017 **U** UDACITY

Zehua Cheng

Has successfully completed the

Johns Hopkins University





Finished project: Data Visualization

Finished project: A/B Testing Udacity's Free Trial Screener

A/B testing