This is to certify that

### **QiFeng Liang**

successfully completed and received a passing grade in

### **DS0720EN: Data Science and Machine Learning Capstone Project**

a course of study offered by IBM, an online learning initiative of IBM.



Valid Certificate ID

Sourav Mazumder

Data Scientist

IBM Developer Skills Network

Alex Aklson

Ph.D., Data Scientist *IBM* 

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#### **DV0101EN: Visualizing Data with Python**

a course of study offered by IBM, an online learning initiative of IBM.



Alex Aklson

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Verified Certificate Issued May 15, 2021

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#### **DA0101EN: Analyzing Data with Python**

a course of study offered by IBM, an online learning initiative of IBM.



Verified Certificate Issued May 1, 2021 Valid Certificate ID

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Joseph Santarcangelo

Data Scientist

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### **QiFeng Liang**

successfully completed and received a passing grade in

#### py4e102x: Python Data Structures

a course of study offered by MichiganX, an online learning initiative of the University of Michigan.



**Charles Severance** 

Professor, School of Information

University of Michigan



Verified Certificate Issued March 31, 2021

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### **QiFeng Liang**

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### py4e101x: Programming for Everybody (Getting Started with Python)

a course of study offered by MichiganX, an online learning initiative of the University of Michigan.



**Charles Severance** 

Professor, School of Information

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ML0101EN: Machine Learning with Python: A Practical Introduction

a course of study offered by IBM, an online learning initiative of IBM.

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Joseph Santarcangelo

Data Scientist

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### **QiFeng Liang**

successfully completed and received a passing grade in

**PY0101EN: Python Basics for Data Science** 

a course of study offered by IBM, an online learning initiative of IBM.

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Joseph Santarcangelo

Data Scientist

This is to certify that

### **QiFeng Liang**

successfully completed and received a passing grade in

**CPP.PRG.1: Introduction to Programming in C++** 

a course of study offered by NYUx, an online learning initiative of New York University.



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Aspen Olmsted

Adjunct Professor

New York University

This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

### Data8.1x: Data Science: Computational Thinking with Python

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



an Clibberi

Ani Adhikari

Teaching Professor of Statistics University of California, Berkeley

John DeNero

Assistant Teaching Professor of Computer Science
University of California, Berkeley

David a. Wy

David Wagner

Professor of Computer Science University of California, Berkeley



Verified Certificate
Issued August 6, 2021

This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

CS1331xI: Introduction to Object-Oriented Programming with Java I: Foundations and Syntax Basics

a course of study offered by GTx, an online learning initiative of the Georgia Institute of Technology.





Dr. Olufisayo Omojokun

Senior Lecturer

Georgia Tech College of Computing

Dr. Charles Isbell

John P. Imlay Dean of Computing Georgia Tech College of Computing

This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

#### CS1301xIV: Computing in Python IV: Objects & Algorithms

a course of study offered by GTx, an online learning initiative of the Georgia Institute of Technology.



Dr. David Joyner

Executive Director of Online Education & OMSCS

Georgia Tech College of Computing

Dr. Nelson Baker

Dean of Professional Education

Georgia Tech Professional Education

Dr. Zvi Galil

Former John P. Imlay Dean of Computing Georgia Tech College of Computing

Dr. Charles Isbell

John P. Imlay Dean of Computing

Georgia Tech College of Computing



This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

#### CS1301xII: Computing in Python II: Control Structures

a course of study offered by GTx, an online learning initiative of the Georgia Institute of Technology.



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Dr. Nelson Baker

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Verified Certificate Issued June 30, 2021



This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

#### PH526x: Using Python for Research

a course of study offered by HarvardX, an online learning initiative of Harvard University.



Verified Certificate

Valid Certificate I



lukka-Dekka "ID" Onnels

Associate Professor of Biostatistics

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This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

#### FCS.OS.1: Computer Hardware and Operating Systems

a course of study offered by NYUx, an online learning initiative of New York University.





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Aspen Olmsted

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This is to certify that

#### **QiFeng Liang**

successfully completed and received a passing grade in

#### **CSX0001: Computer Science 101**

a course of study offered by StanfordOnline, an online learning initiative of Stanford University.



Valid Certificate ID

#### Stanford | ONLINE



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