

Verified Certificate

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.



A handwritten signature in blue ink.

Sourav Mazumder

Data Scientist

IBM Developer Skills Network

A handwritten signature in blue ink.

Alex Akison

Ph.D., Data Scientist

IBM



Verified Certificate
Issued June 9, 2021

Valid Certificate ID

Verified Certificate

This is to certify that

QiFeng Liang

successfully completed and received a passing grade in

DV0101EN: Visualizing Data with Python

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



A handwritten signature of Alex Akison.

Alex Akison

Ph.D. Data Scientist

IBM

A handwritten signature of Joseph Sancartangelo.

Joseph Sancartangelo

PhD., Data Scientist

IBM

A handwritten signature of Saishruthi Swaminathan.

Saishruthi Swaminathan

Data Scientist and Developer Advocate

IBM



Verified Certificate
Issued May 15, 2021

Valid Certificate ID

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This is to certify that

QiFeng Liang

successfully completed and received a passing grade in

DA0101EN: Analyzing Data with Python

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



A handwritten signature in black ink that reads "Joseph Santarcangelo".

Joseph Santarcangelo

Data Scientist
IBM



Verified Certificate
Issued May 1, 2021

Valid Certificate ID

Verified Certificate



This is to certify that

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.

A handwritten signature in black ink that reads "Charles Severance".

Charles Severance

Professor, School of Information

University of Michigan



Verified Certificate
Issued March 31, 2021

Valid Certificate ID

Verified Certificate



This is to certify that

QiFeng Liang

successfully completed and received a passing grade in

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

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

A handwritten signature in black ink, appearing to read "Charles Severance".

Charles Severance

Professor, School of Information
University of Michigan

Verified **Certificate**

This is to certify that

QiFeng Liang

successfully completed and received a passing grade in

**ML0101EN: Machine Learning with Python: A Practical
Introduction**

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



A handwritten signature in black ink.

Joseph Santarcangelo

Data Scientist

IBM

Verified Certificate

This is to certify that

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.

A handwritten signature in black ink that reads "Joseph Santarcangelo".

Joseph Santarcangelo
Data Scientist
IBM

Verified Certificate

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.



Aspen Olmsted

Aspen Olmsted
Adjunct Professor
New York University

Verified Certificate

Berkeley

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.



Ani Adhikari

Ani Adhikari

Teaching Professor of Statistics
University of California, Berkeley



John DeNero

Assistant Teaching Professor of Computer Science
University of California, Berkeley



David Wagner

David Wagner

Professor of Computer Science
University of California, Berkeley



Verified Certificate
Issued August 6, 2021

Valid Certificate ID

Verified Certificate



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

Verified Certificate



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



Verified Certificate
Issued July 14, 2021

Valid Certificate ID

Verified Certificate



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.

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



Verified Certificate
Issued June 30, 2021

Valid Certificate ID

Verified Certificate

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.



A handwritten signature in black ink.

Jukka-Pekka "JP" Onnela
Associate Professor of Biostatistics
Harvard University



Verified Certificate Valid Certificate ID
Issued June 19, 21

Verified Certificate



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.

A handwritten signature in black ink, appearing to read "Aspen Olmsted".

Aspen Olmsted
Adjunct Professor
New York University



Verified Certificate Valid Certificate ID
Issued April 10, 2017

Verified Certificate

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.

Stanford | ONLINE



Nick Parlante

Senior Lecturer, Computer Science
Stanford University



Verified Certificate
Issued April 6, 201

Valid Certificate ID