

Verified Certificate



This is to certify that

Yan Shao

successfully completed and received a passing grade in

CS1332xIV: Data Structures & Algorithms IV: Pattern Matching, Dijkstra's, MST, and Dynamic Programming Algorithms

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

A handwritten signature in black ink, appearing to read 'Mary Hudachek-Buswell'.

Dr. Mary Hudachek-Buswell

Associate Chair of the School of Computing Instruction

Georgia Tech College of Computing

A handwritten signature in black ink, appearing to read 'Nelson Baker'.

Dr. Nelson Baker

Dean of Professional Education

Georgia Tech Professional Education

A handwritten signature in black ink, appearing to read 'Charles Isbell'.

Dr. Charles Isbell

John P. Imlay Dean of Computing

Georgia Tech College of Computing



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Issued June 16, 2023

Valid Certificate ID

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