

Verified Certificate

This is to certify that

Mitchell Mackenzie Sell

successfully completed and received a passing grade in

**CS1332xl: Data Structures & Algorithms I: ArrayLists, LinkedLists,
Stacks and Queues**

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

Lecturer

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



Verified Certificate
Issued August 6, 2022

Valid Certificate ID
a1d213f3a77c44eba70560fff42b3ca2

Verified Certificate

This is to certify that

Mitchell Mackenzie Sell

successfully completed and received a passing grade in

**CS1332xII: Data Structures & Algorithms II: Binary Trees, Heaps,
SkipLists and HashMaps**

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



Verified Certificate
Issued August 8, 2022

Valid Certificate ID
37b80d25c8154b45869f44db7c928401



A handwritten signature in black ink.

Dr. Mary Hudachek-Buswell

Lecturer

Georgia Tech College of Computing

A handwritten signature in black ink.

Dr. Nelson Baker

Dean of Professional Education

Georgia Tech Professional Education

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Dr. Charles Isbell

John P. Imlay Dean of Computing

Georgia Tech College of Computing

Verified Certificate

This is to certify that

Mitchell Mackenzie Sell

successfully completed and received a passing grade in

**CS1332xIII: Data Structures & Algorithms III: AVL and 2-4 Trees,
Divide and Conquer Algorithms**

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



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Dr. Mary Hudachek-Buswell

Lecturer

Georgia Tech College of Computing

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Dr. Nelson Baker

Dean of Professional Education

Georgia Tech Professional Education

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Dr. Charles Isbell

John P. Imlay Dean of Computing

Georgia Tech College of Computing



Verified Certificate
Issued September 22, 2022

Valid Certificate ID
a21f27b8cbf5479fb8909e4951b58c03

Verified Certificate

This is to certify that

Mitchell Mackenzie Sell

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



Verified Certificate
Issued August 10, 2022

Valid Certificate ID
49157c75b45c4d21adbdc325b6abd061