SKILL CERTIFICATE

CAREER AND TECHNICAL EDUCATION

This is to certify that

JONATHAN
SU

has demonstrated competency in

Computer Programming,
Advanced (840)

May 19, 2022

CTE
Learning that works
for Utah

Sydnee Dickson
Sydnee Dickson
State Superintendent

Thalea Longhurst
Thalea Longhurst
State Career and Technical Education Director

Career Skills Certificate Report

Exam Details

JONATHAN SU

Computer Programming, Advanced (840)

Certification Date: 05/19/2022

This document certifies that the student listed has acquired the following skills and knowledge

Skills and Knowledge

Standards

- Students will develop applications which make advanced use of the skills and concepts developed in Computer Programming 1 & 2.

- Students will use searching and sorting algorithms.

- Students will utilize multidimensional arrays.

- Students will properly employ dynamic data structures / abstract data types (ADTs).

- Students will design and implement advanced objected oriented concepts.

- Students will use Unified Modeling Language (UML) to design object oriented programs.

- Students will develop a program of significant complexity as part of a portfolio.