

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to
Abraham Festus

for participation in
INTRODUCTION TO COMPUTER SCIENCE

After this course, the participants have learned about:

COURSE CONTENT

Introduction to Computer Science

A brief history of computer hardware and software

- Basic hardware elements
- von-Neumann architecture
- Input Process Output model

Introduction to operating systems

- History of operating systems
- Concept of abstraction layers

General concepts of computer programming

- Diversity of computer programs
- Basic concept of algorithm and flowcharts

Basic concepts of User and Command Line Interface

- Concept of an interface
- Difference between User and Command Line Interface
- Basic Linux commands (bash commands)

Introduction to Programming (Python)

- Brief introduction of python
- Basic data types (booleans, numbers, strings, lists, dictionaries)
- Usage of variables
- Operations (Logical and Arithmetic)
- Boolean logic and decision making
- Conditionals (if, if else, else)
- Functions (parameters, return value)
- Modules
- Introduction to Flask

Web Technology:

- Network and Internet fundamentals
- Introduction to web programming
- Introduction to HTML and CSS
- A brief introduction to static and dynamic web apps

Version Control with Git

- Overview of version control systems
- Introduction to Git
- Working with Git repository [create local repo]
- Basic Git Workflow [edit, add and commit]
- Working with remote repository [creation, push]
- Introduction and working to Github

LEARNING OUTCOMES

Upon successful completion, students have the knowledge and skills to:

- write a simple algorithm in python.
- Run basic commands in the command line.
- Know basic python structures and data types.
- Know the basics of web technologies.
- Able to generate small web apps (HTML & CSS).
- Able to use the python framework "flask" in order to run dynamic web applications.

This course was held for a period of 50-hours from September 2020 to December 2020.
Munich, 10th of December 2020



Anne Kjaer Bathel

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CEO & Co-Founder

ReDI School of Digital Integration is a non-profit organization that promotes the economic and social integration of newcomers and asylum seekers in Germany and Europe. The courses offered at ReDI School are not part of governmental policies or public programs. Participation in the courses is voluntary and free for the participants. ReDI School is financed through donations and works through the voluntary commitment of the teachers.

