

**5 Courses** 

Programming for Everybody (Getting Started with Python)

**Python Data Structures** 

Using Python to Access Web Data

Using Databases with Python

Capstone: Retrieving, Processing, and Visualizing Data with Python



04/16/2020

#### Pavithra Agraharam

has successfully completed the online, non-credit Specialization

## Python for Everybody

This Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

Charles Severance Clinical Associate Professor, School of Information University of Michigan

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at: coursera.org/verify/specialization/BLQG6AECJBN7



**5 Courses** 

Introduction to HTML5

Introduction to CSS3

Interactivity with JavaScript

Advanced Styling with Responsive Design

Web Design for Everybody Capstone



04/11/2020

#### Pavithra Agraharam

has successfully completed the online, non-credit Specialization

# Web Design for Everybody: Basics of Web Development & Coding

This Specialization covers how to write syntactically correct HTML5 and CSS3, and how to create interactive web experiences with JavaScript. Mastering this range of technologies will allow you to develop high quality web sites that, work seamlessly on mobile, tablet, and large screen browsers accessible. During the capstone you will develop a professional-quality web portfolio demonstrating your growth as a web developer and your knowledge of accessible web design. This will include your ability to design and implement a responsive site that utilizes tools to create a site that is accessible to a wide audience, including those with visual, audial, physical, and cognitive impairments.

Colleen van Lent

Colleen van Lent, Ph.D. Lecturer School of Information, University of Michigan

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at: coursera.org/verify/specialization/2J5V36REMXN2



04/10/2020

## Pavithra Agraharam

has successfully completed

#### Advanced Styling with Responsive Design

an online non-credit course authorized by University of Michigan and offered through Coursera

### COURSE CERTIFICATE



Colleen van Lent

Colleen van Lent, Ph.D. Lecturer School of Information, University of Michigan Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/2MHFJUDXLWS_3$ 



04/15/2020

### Pavithra Agraharam

has successfully completed

Capstone: Retrieving, Processing, and Visualizing Data with Python

an online non-credit course authorized by University of Michigan and offered through Coursera

COURSE CERTIFICATE



Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/BGR_3SW_{53}X_4YS$ 



04/10/2020

## Pavithra Agraharam

has successfully completed

#### Interactivity with JavaScript

an online non-credit course authorized by University of Michigan and offered through Coursera

### COURSE CERTIFICATE



Colleen van Lent

Colleen van Lent, Ph.D. Lecturer School of Information, University of Michigan Charles Severance Clinical Professor, School of Information University of Michigan

Verify at coursera.org/verify/8TMWT8YTJST4



04/09/2020

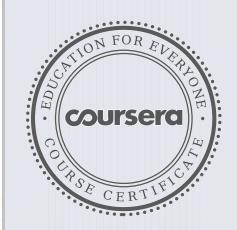
## Pavithra Agraharam

has successfully completed

#### Introduction to CSS3

an online non-credit course authorized by University of Michigan and offered through Coursera

#### COURSE CERTIFICATE



Colleen van Lent

Colleen van Lent, Ph.D. Lecturer School of Information, University of Michigan Charles Severance Clinical Professor, School of Information University of Michigan

Verify at coursera.org/verify/TQ6SJQY6DT7B

Coursera has confirmed the identity of this individual and  $\mbox{their participation in the course}. \label{eq:course}$ 



04/08/2020

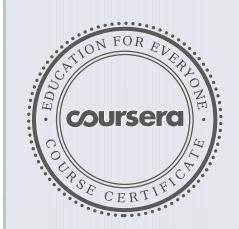
## Pavithra Agraharam

has successfully completed

#### Introduction to HTML5

an online non-credit course authorized by University of Michigan and offered through Coursera

### COURSE CERTIFICATE



Colleen van Lent

Colleen van Lent, Ph.D. Lecturer School of Information, University of Michigan Charles Severance Clinical Professor, School of Information University of Michigan

Verify at coursera.org/verify/3EW36QHB73DD



04/12/2020

### Pavithra Agraharam

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

COURSE CERTIFICATE



Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/XYGKFWMT5UGT$ 



04/12/2020

## Pavithra Agraharam

has successfully completed

#### Python Data Structures

an online non-credit course authorized by University of Michigan and offered through Coursera

COURSE CERTIFICATE



Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/X6MD35T4LH3Z$ 



04/16/2020

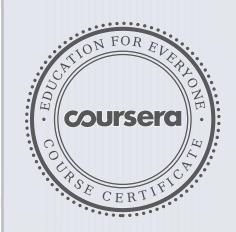
### Pavithra Agraharam

has successfully completed

#### Using Databases with Python

an online non-credit course authorized by University of Michigan and offered through Coursera

COURSE CERTIFICATE



Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/YHGRG_5HYWP_{52}$ 



04/13/2020

## Pavithra Agraharam

has successfully completed

#### Using Python to Access Web Data

an online non-credit course authorized by University of Michigan and offered through Coursera

COURSE CERTIFICATE



Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/8EEZPZ97CJVA$ 



04/11/2020

### Pavithra Agraharam

has successfully completed

#### Web Design for Everybody Capstone

an online non-credit course authorized by University of Michigan and offered through Coursera

### COURSE CERTIFICATE



Colleen van Lent

Colleen van Lent, Ph.D. Lecturer School of Information, University of Michigan Charles Severance Clinical Professor, School of Information University of Michigan

 $Verify\ at\ coursera.org/verify/SURRRAQLEF9P$