Completed Unity3D Course Pathways

Junior Programmer - 2024



Level 1 Code Comprehension

Interpret basic code in a Unity code base

Improve simple code using the features of an IDE

Level 1 Application Scripting

Control the execution of code with common logic structures

Compose scripts that utilize various APIs

Implement appropriate data types

Write code that integrates into an existing system

Cultivate a code style that is efficient and easy to read

Prototype new concepts

Level 1 Debugging

Diagnose and fix code that compiles, but fails to perform as expected

Diagnose and fix common compilation errors

Diagnose and fix compilation errors related to Unity's Scripting API

Diagnose and fix the cause of an exception

Level 2 Application scripting

Create the scene flow in an application state

Implement data persistence across scenes and user sessions

Level 1 Version control

Maintain a project by correctly implementing version control

Implement best practices of version control using Unity Collaborate

Level 1 Code optimization

Maximize code efficiency by correctly executing coding best practices

Debug performance issues

Level 2 Programming theory

Analyze the principal pillars of object-oriented programming

Simplify code and make it reusable by correctly implementing the principles of inheritance and polymorphism

Make code more secure and usable by correctly implementing the principles of abstraction and encapsulation, including the use of interfaces

Write efficient, organized, and comprehensible code by correctly implementing the principles of object-oriented programming

Unity Essentials – 2024



Creating and Managing Unity projects

Install the Unity Editor for the first time

Work with projects in the Unity Hub

Unity Editor Essentials

Employ essential features of the Unity Editor

Create and Manage Scenes

Navigate in 3D space in the Scene view

Navigate in 2D space in the Scene view

Real-time Industry Essentials

Understand Unity's history and role within the industries that rely on real-time creation.

Describe the real-time production cycle

Scene Building Essentials

Identify the default elements in a new Scene

Create GameObjects

Transform GameObjects

Work with components and Scripts

Control the appearance of GameObjects

Employ basic physics for GameObjects

Publishing

Configure a basic build of a project

Level 1 Job Preparation

Prepare yourself for the job search

Create a portfolio, enabling you to pursue a job in real-time development

Cultivate professional attitudes

Plan your Unity learning journey by setting goals

Practice continuous personal and professional growth