coursera

Rapid application development on a Raspberry Pi

This unit looks at how to add a device to your solution. Creating an application on a Raspberry Pi and establishing secure, trusted communication between your cloud application and devices

Raspberry Pi and SenseHAT

<div style="text-align:right">Start Lesson</div>

- ▶ A quick look at devices and sensor options   6 min
- ▶ Setting up a Raspberry Pi and Raspberry Pi Sense Hat   9 min
- ▤ Setting up your Raspberry Pi - step by step   10 min
- ▶ Extra resource – (for Windows) Install the Raspbian Jessie OS on an SD Card   1 min
- ▤ Learning module summary: Raspberry Pi and SenseHAT   10 min

Rapid Application Development with NodeRED on a Raspberry Pi

- ▶ NodeRED on Raspberry Pi part 1   5 min
- ▶ NodeRED on Raspberry Pi part 2   6 min
- ▤ QuickStart flow - step by step   10 min
- 🔒 **Programming Assignment:** QuickStart flow on Raspberry Pi   3h
- ▤ Learning module summary: Rapid Application Development with NodeRED on a Raspberry Pi   10 min

Help Center

Introduction to the Watson Internet of Things Platform

▶   Watson Internet of Things platform   5 min

▶   Devices, Applications and Gateways part 1   6 min

▶   Devices, Applications and Gateways part 2   7 min

🔒   **Quiz:** Using the NodeRED flow editor with your own Watson IoT platform.   5 questions

▤   Learning module summary: Introduction to the Watson Internet of Things Platform   10 min

Controlling a device

▶   Sending commands to a device   4 min

▶   SenseHAT and SenseHAT simulator nodes in NodeRED   3 min

🔒   **Programming Assignment:** End-to-end scenario   3h

▤   Learning module summary: Controlling the device   10 min

Upcoming session:

July 11 - August 14

Enrollment ends July 16

Enrolled

Following session begins July 25