

Document Generated: 07/01/2026

Learning Style: On Demand

Technology:

Difficulty: Intermediate

Course Duration: 5 Hours

## Building ChatBots with Amazon Lex



### About this course:

Chatbots are a hot new technology - a great way to convey complex information to your customers in a free-flowing, conversational way. Amazon Lex is a great way to build them - an AWS service for building conversational interfaces for any applications using voice and text.

Amazon Lex is state-of-the-art, launched in April 2017. Powered by the same deep

learning based engine as Amazon Alexa. No deep learning or natural language processing expertise is needed to build even complex bots. Provides an intuitive way of specifying the conversational interface. Automatically and dynamically adjusts conversational responses .Easy to build, test and publish app. Supports integration with other platforms such as Slack and Facebook.

The average salary of a Applications *Developer* is **\$75,323** per year.

### **Course Objectives:**

After completing this course, students will be able to:

- Build and deploy natural-sounding chatbots
- Design and build sound interaction models for your chatbots
- Implement robust fulfilment models using AWS Lambdas
- Develop third-party apps for Slack and Facebook

### **Audience:**

Website and mobile app developers looking to add chat functionality. Software developers looking to build sophisticated chatbots.

### **Prerequisites:**

Basic python programming. Basic understanding of HTTP and how REST APIs work.

### **Suggested prerequisites courses:**

- [Programming with Python for Data Science.](#)

### **Career path:**

[App Development...](#)

### **Course Outline:**

#### **You, This Course and Us**

You, This Course and Us  
Source Code and PDFs

#### **The Big Picture: Lex, Alexa and AWS**

Course Outline  
Lex and Alexa  
Evolution Of HCI And Voice Interfaces  
Alexa Echo And AWS  
Invocations Utterances Intent  
AWS Signin  
Sample Bots

Custom Bots and IAM  
Finish Bot Creation

## **Interaction Models in Amazon Lex**

Module Outline  
Creating Intents  
Slot Types  
Slots  
Slot Properties  
Sample Utterances  
Confirmations  
Configuring The Bot  
Test Order Coke  
Test Order Pizza Fail  
Test Order Pizza OK  
Cleaning Up Resources

## **Fulfilment Models in Amazon Lex**

Module Outline  
Weather Bot  
Built In Slot Types  
Setting Up Weather Bot  
Lambda Intro  
Lambda Blueprint  
Code Big Picture  
Lambda Handler  
Constructing Response  
Lambda Configuration  
Lex Lambda Configuration  
Open Weather API  
Invoking Open Weather API  
Importing External Libraries To AWS Lambda  
Versions Aliases And Publishing

## **Third-party Apps: Chatbots in Slack**

Module Outline  
Creating Slack Application  
Activating Lex Integration  
Configuring Stack App

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