ANDROID DEVELOPMENT

8 WEEK PART-TIME
EVENING COURSE

turntotech
LEARN · BUILD APPS · GET HIRED

LOCATION

TurnToTech
40 Rector Street, 10th Fl
New York, NY 10006
(212) 924 - 8324

COST

$3,000

Curriculum

What does this course cover?

This course covers fundamentals of the Java programming language and Android app development with an interactive, project-based curriculum. Students will be introduced to the some of the most popular features and frameworks of Android development.

Who is this course for?

This course is ideal for beginners, product managers, designers, those exploring software development, and developers looking to start Android development.

What will I accomplish?

Students will create small apps each week that demonstrate core Android concepts. Students will also work on a more complex ongoing final project. Students who complete all the coursework, homework and final project will leave with a portfolio of more than 10 small apps and a final project.

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Weekly Plan

Week 1: (Classes 1 & 2) The Java Programming Language)

- The Android development ecosystem – Android Studio, Java, Android OS, Android tools
- The Java Programming Language
- Control flow
- Building a very simple Android app – tip calculator
- Data types
- Classes and Objects
- Memory Management (Garbage collection) in Java
- Assignments 1 & 2

Week 2: (Classes 3 & 4) More Java essentials

- Dalvik VM and new options
- Strings
- Collections
- Algorithms
- Packages in Java
- Building your second Android app – NYC Quiz Game
- Assignments 3 & 4

Week 3: (Classes 5 & 6) Object-oriented programming for Android

- More on Classes & Objects
- Android-based examples of Classes & Objects
- Assignments 5 & 6

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Week 4: (Classes 7 & 8) Introduction to Android Development

- Android development fundamentals – Activity, Dynamic UI, App Layouts
- Essential ideas – MVC, Asynchronous programming, JSON, and HTTP
- Building your third Android app – Recipe app with pictures
- Assignments 7 & 8

Week 5: (Classes 9 & 10) More on Views and Controllers

- List Views
- Intents
- Fragments
- Navigating between different screens of your app
- Arrays and array adaptors – accessing the Android address book
- Gestures
- Cleanly separating data from your views and controllers
- Building your fourth Android app – To-Do List app
- Assignments 9 & 10

Week 6: (Classes 11 & 12) Data Persistence

- Data Persistence strategy for mobile
- Storing user preference data using Shared Preferences
- Android independent, local storage using SQLite
- Advanced SQLite with Content Providers
- Building your fifth Android app – Enhance your To-Do List app and add a save feature
- Assignments 11 & 12

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Week 7: (Classes 13 & 14) Pre-built Android Frameworks

- Maps
- Social Framework – Facebook and Twitter
- Audio and Camera
- Building your sixth Android app – Camera app with filters
- Assignments 13 & 14

Week 8: (Classes 15 & 16) Pre-built Android Frameworks (continued)

- Detecting connection type – Wi-Fi / 4G
- Sensors – a gyroscope example
- Home screen widgets
- Security in Android apps
- Mobile development – best practices
  Covers the entire lifecycle of Android app development and various pitfalls and strategies for ensuring success in your Android projects

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