

INDIA | UAE | CANADA | AUSTRALIA | MALAYSIA | HONG KONG | EUROPE REGION | OMAN

COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : query@countryedu.com, grievances@countryedu.com

iOS Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

To transform students into job-ready iOS Developers capable of:

- Building modern iOS mobile applications using Swift and Apple development frameworks
- Understanding iOS application architecture, UI/UX principles, and app development workflows
- Developing responsive and interactive iPhone and iPad applications
- Gaining hands-on experience in API integration, database connectivity, and app deployment
- Learning industry-standard coding practices, debugging, and version control workflows
- Preparing students for careers in iOS App Development and Mobile Software Engineering

Program Structure :

- Duration: 12 Weeks (3 Months)
- Mode: Hybrid / Live / Classroom
- Tools Used: Swift, Xcode, UIKit, Firebase, GitHub, REST APIs, SQLite, VS Code
- Learning Model: Project-Based Learning Model
- Final Outcome: Ability to build and deploy professional iOS applications + Internship Certificate

MONTH 1 – iOS DEVELOPMENT FUNDAMENTALS

Week 1: Introduction to iOS Development

- Introduction to iOS & Apple Ecosystem
- Understanding Mobile App Development
- Xcode Installation & Setup
- Introduction to Swift Programming
- Variables & Data Types
- Building First iOS Application

~ Outcome: Strong foundation in iOS development and Swift programming basics

Week 2: iOS UI Design & Layouts

- Introduction to UIKit
- Storyboards & Interface Builder
- Labels, Buttons & Input Fields
- Auto Layout & Constraints
- Navigation Controllers
- Responsive UI Design

~ Outcome: Ability to design responsive and interactive iOS application interfaces

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Week 3: Swift Programming Fundamentals

- Functions & Closures
- Arrays & Dictionaries
- Object-Oriented Programming in Swift
- Optionals & Error Handling
- Loops & Conditional Statements
- MVC Architecture Basics

~ Outcome: Ability to write structured and reusable Swift code for iOS applications

Week 4: Advanced iOS UI & Components

- TableView & CollectionView
- Custom UI Components
- Animations & Transitions
- Alerts & Action Sheets
- App Navigation Workflow
- iOS UI/UX Best Practices

~ Outcome: Ability to create professional and user-friendly iOS interfaces

MONTH 2 – BACKEND INTEGRATION & APP FUNCTIONALITY

Week 5: Firebase & Database Integration

- Introduction to Firebase
- Firebase Authentication
- Cloud Firestore Basics
- Data Storage & Retrieval
- Firebase Security Basics
- User Session Management

~ Outcome: Ability to integrate backend services and databases with iOS applications

Week 6: API Integration & Networking

- REST API Basics
- URLSession Networking
- JSON Parsing
- API Integration in iOS
- Error Handling Techniques
- Dynamic Data Rendering

~ Outcome: Ability to connect iOS applications with external APIs and services

Week 7: Advanced iOS Features

- Local Storage & UserDefaults
- Push Notification Basics
- Camera & Gallery Integration
- Maps & Location Services
- File Handling Basics
- App Performance Optimization

~ Outcome: Ability to build feature-rich and optimized iOS applications

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Week 8: GitHub & App Deployment

- Git & GitHub Workflow
- Version Control Basics
- Debugging & Testing
- App Signing Basics
- App Store Submission Process
- TestFlight Introduction

~ Outcome: Ability to professionally manage and deploy iOS applications

MONTH 3 – LIVE PROJECT & CAREER READINESS

Week 9–10: iOS Project Development

Students work on real-world iOS Projects such as:

- Food Delivery App
- Expense Tracker App
- Chat Application
- E-Commerce Mobile App
- Weather Forecast Application
- Student Management App

Project Includes:

- Requirement Analysis
- UI/UX Planning
- Frontend & Backend Integration
- Testing & Debugging
- Final Project Presentation

~ Outcome: Ability to build complete real-world iOS mobile applications

Week 11: Deployment & Professional Workflow

- App Publishing Workflow
- Firebase Project Management
- Environment Configuration
- Project Documentation
- Portfolio Development
- GitHub Project Management

~ Outcome: Ability to professionally deploy and present iOS projects

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Week 12: Interview & Career Preparation

- iOS Development Interview Preparation
- Resume & LinkedIn Optimization
- Mock Interviews
- App Development Challenges
- Freelancing & Internship Guidance
- Career Pathways (iOS Developer, Swift Developer, Mobile App Developer, Software Engineer)

~ Outcome: Placement-ready iOS Developer with practical project experience

Key Skills Developed

- Swift Programming
- iOS App Development
- UIKit & Storyboards
- Firebase Integration
- REST API Integration
- Mobile UI/UX Design
- Git & GitHub Workflow
- App Deployment & Optimization

Target Roles After Completion

- iOS Developer
- Swift Developer
- Mobile App Developer
- Apple Application Developer
- Software Engineer
- Freelance iOS Developer

Why This Program is Industry-Ready

- ✓ 100% Project-Based Learning
- ✓ Real-world Mobile App Development Experience
- ✓ Backend & API Integration Exposure
- ✓ Industry-standard Development Practices
- ✓ Portfolio & Career Preparation Included

From Beginner to Professional — Become an iOS Development Expert in 3 Months.