



Open Mobile Lab

Infinity Labs R&D has created the revolutionary 6 week Mobile Lab for transforming exceptional graduates of the Open Lab training program into effective and capable Android or iOS developers.

Mobile development

Fundamentals

- MVC
- Multi-threaded traps and pitfalls
- Reactive programming
- Testing strategies
- Software / Hardware fragmentations
- Application Life Cycle
- App Deployment
- Emulators

Sever-side

- Crash dump analysis
- Security - *optional*
- Deployment traps and pitfalls - *optional*
- In App purchases - *optional*

UI

- Responsive Design
- UI Design Tools & Techniques
- Animations
- Gestures

Camera and Sensors

- Bluetooth Low Energy
- Fingerprint Authentication
- Media and Camera
- Motion sensors

Advanced

- location and Map
- Facebook / Google Authentication
- Beacon
- Wearables development
- NFC
- Localization

Networking

- Server Side / Web Server
- HTTP
- JSON
- XML
- REST / RESTful
- Web Services
- Cloud development

Third Party

- Parse
- GitHub

iOS

- Objective C
- MRC vs ARC
- iOS Architecture
- SQL (Core Data + Native SQLite)
- Swift - *optional*
- Xcode

Advanced

- Activity Monitor
- Allocations Trace
- Core Data Trace
- Energy Diagnostics
- System Trace
- Leaks
- Network Analysis
- System Usage I/O
- Push Notifications

UI

- Storyboard, xib
- In-depth Autolayout best practices/ traps and pitfalls
- UINavigationController / UINavigationController(Life Cycle)
- CocoaTouch Framework and UI Elements
- UITableView
- MapKit

3rd Party

- AFNetworking
- JSONKit

Android

- Java
- Android Architecture
- SQLite

Tools

- Android Studio
- Dalvik Debug Monitor Server
- Gradle - *optional*

UI

- Layouts
- Input Controls
- Input Events
- Multimedia
- Graphics
- Animation

Misc.

- Java.net
- Notifications and Alarms

3rd Party

- Retrofit / Volley
- Picasso
- Gson / Jackson JSON