Mobile Applications in 2017 & Beyond

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Goal of this talk
Why I’m (slightly) qualified to talk about this
But will this end soon?
2017 should be the start of your app career.
What’s been going on in the mobile app world lately?
Machine Learning on iOS

You don’t even need to be an expert.

- Offline
- Fast
- Less power consumption

CoreML requirements: Xcode 9, iOS 11
Yes really, it’s that simple
Just as easy to integrate third-party models
And we haven’t even started talking about AR yet
How it works (ARKit)
Putting it into your app
Putting it into your app

- (void)viewDidLoad {
  [super viewDidLoad];

  // Container to hold all of the 3D geometry
  SCNScene *scene = [SCNScene new];

  // The 3D cube geometry we want to draw
  SCNBox *boxGeometry = [SCNBox
    boxWithWidth:0.1
    height:0.1
    length:0.1
    chamferRadius:0.0];

  // The node that wraps the geometry so we can add it to the scene
  SCNNode *boxNode = [SCNNode nodeWithGeometry:boxGeometry];

  // Position the box just in front of the camera
  boxNode.position = SCNVector3Make(0, 0, -0.5);

  // rootNode is a special node, it is the starting point of all
  // the items in the 3D scene
  [scene.rootNode addChildNode: boxNode];

  // Set the scene to the view
  self.sceneView.scene = scene;
}

- (void)viewWillAppear:(BOOL)animated {
  [super viewWillAppear:animated];

  // Create a session configuration
  ARWorldTrackingSessionConfiguration *configuration =
  [ARWorldTrackingSessionConfiguration new];

  // Run the view's session
  [self.sceneView.session runWithConfiguration:configuration];
}
Database Fun!
Create & Configure the User

```swift
Auth.auth().createUser(withEmail: email, password: password) { (user, error) in
    // ...
}
```
References, references

```javascript
var ref: DatabaseReference!
ref = Database.database().reference()
```
func configureDatabase() {
    ref = Database.database().reference()
    // Listen for new messages in the Firebase database
    _refHandle = self.ref.child("messages").observe(.childAdded, with: { (weak self) (snapshot) -> Void in
        guard let strongSelf = self else { return }
        strongSelf.messages.append(snapshot)
        strongSelf.clientTable.insertRows(at: [IndexPath(row: strongSelf.messages.count-1, section: 0)],
            with: .automatic)
    })
}

func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {
    // Dequeue cell
    let cell = self.clientTable.dequeueReusableCell(withIdentifier: "tableViewCell", for: indexPath)
    // Unpack message from Firebase DataSnapshot
    let messageSnapshot = self.messages[indexPath.row]
    guard let message = messageSnapshot.value as? [String: String] else { return cell }
    let name = message[Constants.MessageFields.name] ?? ""
    let text = message[Constants.MessageFields.text] ?? ""
    cell.textLabel?.text = name + ": " + text
    cell.imageView?.image = UIImage(named: "ic_account_circle")
    if let photoURL = message[Constants.MessageFields.photoURL], let URL = URL(string: photoURL),
        let data = try? Data(contentsOf: URL) {
            cell.imageView?.image = UIImage(data: data)
    }
    return cell
}
What if I don’t want to learn Java or Swift or any of those things you should know for mobile app dev?
import React, { Component } from 'react';
import { Text, View } from 'react-native';

class WhyReactNativeIsSoGreat extends Component {
  render() {
    return (
      <View>
        <Text>
          If you like React on the web, you'll like React Native.
        </Text>
        <Text>
          You just use native components like 'View' and 'Text',
          instead of web components like 'div' and 'span'.
        </Text>
      </View>
    );
  }
}
Thanks for coming!

Go make the next big thing :) 

Feel free to contact me at hi@saradu.com