ARPIT PATEL

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Skills

Languages: Swift, Objective-C, Java, JavaScript, Python, Scala, C, C++, Bash

Frameworks/Tools: Native iOS, Native Android, React Native, Flask, AWS, Heroku

Experience

Taplytics • SDK Engineer • Toronto, ON **January 2018 - April 2018**
- Focused on development, testing, and shipment of all mobile SDKs (iOS, Android, and React Native)
- Reduced certain view load times by **50%** for a client's app by improving the iOS SDK's view swizzling lifecycle
- Shipped and implemented entire mobile side of launch control, which achieved **3rd place** on daily product hunt
- Resolved SDK integration issues by editing smali code to inject the Android SDK and replicate issues using Apktool
- Minimized erroneous SDK behavior by writing unit tests for all changes made using XCTest and Mockito

3conX • iOS Developer • Waterloo, ON **May 2017 - August 2017**
- Developed and tested an iOS app that performs drone surveillance
- Ported MavLink enabled drones by building an iOS drone SDK using the MavLink Protocol
- Coordinated packet exchange between device and drone by developing an asynchronous receiver-transmitter bridge
- Mitigated potential battery damage by implementing a 'safe' flight capacity feature using physics knowledge

L'Focus Consultancy Inc. • iOS Developer • San Jose, CA **May 2016 - August 2016**
- Led development of iOS port for Pharmaceutical app, SnapRx (10,000+ downloads)
- Improved and replicated UI flow by reverse engineering SnapRx's android app
- Reduced login and registration time exponentially by designing and implementing an auto fill system

Projects

Music Finder • Identifies music in a segment of a YouTube video **April 2018 - Present**
- Achieved a mobile and web port with a single codebase using React and React Native code sharing

Tech Stack: Flask, Python, React, React Native, JavaScript, HTML, CSS

Image Zone • Classifies and scrapes images • imagezone.herokuapp.com **August 2017 - September 2017**
- Built an object classifier that tags objects within an image using TensorFlow's object detection API
- Launched an image scraper for training classifiers by scraping images from Google using BeautifulSoup

Tech Stack: Flask, Python, Bootstrap, JavaScript, HTML, CSS, Heroku

PinIt • Shares tweets by pinning them, developed at Hack The 6ix **August 2017**
- Made PinIt responsive by implementing an AJAX script to query from the Twitter Search API

Tech Stack: Flask, Python, Angular, JavaScript, HTML, CSS

Education

University of Waterloo: Computer Science with Combinatorics and Optimization Minor **2015 - 2020**
- **Relevant Coursework:** Object-Oriented Programming, Algorithms, Operating Systems, Distributed Systems, AI