

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

- Reduced vital 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
- Fixed long-standing React Native SDK issues by implementing various native bridge methods
- 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 SDK using the MavLink Protocol
- Increased drone communication range by 3 km 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

- Developed 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 by utilizing React and React Native code sharing
- Managed music identification and storage by deploying a Flask REST API

Tech Stack: Flask, Python, React, React Native, JavaScript, AWS RDS, AWS Elastic Beanstalk, PostgreSQL

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