< Pushkar Thakkar

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/ Skills

- **Languages:** Java, Kotlin, XML, Python, Swift (Beginner), HTML/CSS, JSON
- **Tools/Libraries:** GIT, CI/CD, JIRA, Junit, Mockito, Espresso, Roboelectric, Cucumber (BDD), Green Coffee (BDD), AWS, Dagger 2, Retrofit 2, Jetpack (Android), Google MLKit, Selenium.
- **IDE:** Android SDK, XCode, NetBeans, Eclipse, Visual Studio, PyScripter, Sprint Boot, SOAP UI, Postman, TeraData, AirWatch (Deployment)
- **Methodologies:** Agile, Object Oriented Programming, REST, MVC, MVVM, Behavior Driven Development (BDD), Test Driven Development (TDD).
- **Databases:** MySQL, ROOM (Android), SQLite

/ Work Experience

Research Assistant	Carleton University	May 2020 – Present

- Developed python scripts to scrape daily tweets with "cashtags" from twitter using windows task scheduler.
- Automated the reboot process of tweet scraping scripts to avoid loss of data gathered.
- Currently working on crawling Wikipedia pages of fortune 500 companies to see timeline of mentions of keywords related to COVID-19. Using Selenium to access XTool's Blame page to achieve the goal.

Software Engineer II	Innovative Software Engineering (Trimble)	January 2019 – Dec 2019

- As an integral part of the development team I helped design and develop key features of "LASER", an android application for Southeastern Freight Lines (SEFL).
- Lead the efforts to collaborate with team members at PeopleNet to integrate CPIK(CoPilot Integration Kit) library for navigation feature in LASER.
- Designed the Automated Testing Infrastructure for LASER using tools/frameworks like Dagger 2 (Dependency Injection), Junit, Mockito, Green Coffee, Cucumber, Espresso, Roboelectric, etc.
- Help setup a Gitlab repository with CI/CD to run automated unit tests in pipeline before generating a build and assign version numbers automatically on build with respect to merge strategy.
- Took initiatives in absence of product owner and/or scrum master to answer any questions from developers regarding the system and interacted with the clients (SEFL).

Associate Programmer Analyst	FedEx Services	June 2018 – January 2019

- Restructured Onsite (Android app) to be more compatible to TDD going forward, involving converting the MVP to MVVM structure.
- Started iOS app development with developing major features in Fastlane (iOS internal application), Used Auto Layout throughout the development process.
- Lead the deployment efforts of Fastlane along with Device Enrollment Program (DEP) to 1400 new and old FedEx and client locations.
- Lead the POC efforts in evaluating "Cordova" as a potential framework to retire Fastlane as a Retail Transformation movement at FedEx.

| **IT Intern** | **FedEx Services** | **June 2017 – August 2017** |

- Acted as scrum master and developer in the IT Intern team during the 10-week internship. The team created 2 android applications that interacted with FedEx Ship & Get and FedEx Dropbox using BLE beacons and Bluetooth dongles.
- The applications made pickup and delivery at the locations 50% faster and 100% accurate. 16 out of 16 FedEx team members that used the application, said they preferred to use the application developed than the current methods.
- The developed application involved scanning, Bluetooth interaction, beacons, and Geofencing.
- Won the "FedEx Director's Choice Award" in the final round of the Internship.

/ Education

| **University of Texas at Arlington** | **August 2013 - May 2018** |
| Bachelor of Science in Computer Science (Summa Cum Laude) | C.G.P.A. 3.93/4.0 |

| **Carleton University/University of Ottawa (OCICS)** | **January 2020 - December 2020(Expected)** |
| Masters in Computer Science | C.G.P.A 11.25/12.0 |

/ Ask me about

- **Package Management System (2020):** Customer & manager facing android applications to track, possess and deliver packages at store. Notifies customer and manager about arrival at store to streamline the process.
  Stack: Java, XML, Glide, Databinding, GSON, MVVM, LiveData, Retrofit 2, BLE Beacon Manager, FCM Notification Manager, Postman, AWS.
- **Find Me (2020):** Android mobile game that challenges user to show randomly selected household items.
  Stack: Kotlin, Machine Learning (MLKit), Navigation Component, Safe Args, CaptureX, Glide, MutableLiveData, Material Design Component, Chaining.
- **Yoga Challenge (2020):** Android app that notifies the user every 24 hours with a random yoga pose as a challenge.
  Stack: Kotlin, Coroutines, Retrofit 2, Alarm Manager, Broadcast Receiver, Countdown Timer, Glide, Shared Preferences, MVVM.
- **Job Description Analysis (2020):** A script that takes in multiple job descriptions and performs Natural Language Processing (NLP) to find most relevant keywords aggregated in the job descriptions provided.
  Stack: Python, NLTK, Term frequency, Word Cloud.
- **Receipt/Barcode Reader (2018):** As part of the iOS app development learning process, developed an application that performed Optical Character Recognition (OCR) to parse the receipt. If unable to parse, the application would scan and parse any barcodes on the receipt.
  Stack: Swift, Tesseract (OCR), AVFoundation
- **Spot and Park (2016):** Used "Raspberry-pi" with a camera to take images of parking lots and use image processing to detect how many of the parking spaces are free and sends the data stored in a database to an Android Applications.
  Stack: Java, Canvas, JSON, REST API, Amazon Web Service, Bitnami, MySQL and JSON.
- **Others (Android):** ToDo (2020), NewsApp (2020), VCare (2018), Online Advisor + (2016)