

# Rahul Sengupta

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## Skills

Languages	Kotlin, Java, Python, C#
Databases	MySQL, NoSQL
Web and Tools	HTML, CSS, JavaScript, Charles, Postman, git, jira
Android and Kotlin Frameworks	Dagger2, Hilt, Firebase, Jetpack and Architecture Components, Compose, Coroutines, Flows

## Education

**The University of Texas at Dallas**, Dallas, TX

**Aug. 2018**

*Master of Science in Computer Science*

**Sikkim Manipal Institute of Technology**, India

**Jul. 2016**

*Bachelor of Technology in Computer Science and Engineering*

## Experience

**Match**, Dallas, TX; Senior Engineer II

**Dec. 2019 – Present**

- **Stack:** Kotlin, Coroutines, Flows, Dagger2, MVVM, Android Jetpack, Retrofit, Scarlet, git, jenkins
- Architected and developed multiple features following the clean architecture pattern with unit and integration tests
- Implemented product flavors in the existing Match application to build a dating application for Single Parents(Stir)
- Refactored styles and themes to support different product designs and flows for each product flavor
- Migrated SharedPreferences to DataStore with Kotlin Serialization. Release builds utilized encrypted DataStore files while debug builds utilized unencrypted DataStore files for easy debugging
- Wrote custom lint rules to flag and prevent hard coded color usage in XMLs and source files to allow each product flavor to render it's own defined colors
- Presented on new Jetpack libraries, relevant architecture patterns and kotlin releases in team architecture meetings
- Co-ordinated with product, design, development, quality analysis and configuration management teams to routinely ship a release on the PlayStore for both Match and Stir

**Bottle Rocket Studios**, Addison, TX; Android Software Engineer

**Oct. 2018 – Nov. 2019**

- **Stack:** Kotlin, Coroutines, Flows, Rx, Dagger2, Android Jetpack, Retrofit, git, jenkins
- Developed multiple features including login and flight booking leveraging Coroutines and Architecture Components like LiveData, ViewModels, Room and Navigation Components
- Implemented and styled the app for dark/light mode
- Wrote custom lint checks for references to color resources in source code and XMLs to comply with dark mode
- Wrote valuable unit tests to verify business logic, bringing the total project test coverage to 40% per Jacoco
- Migrated the project to AndroidX and replaced GlobalScope Coroutines usage with a ViewModel scoped instance

**Bottle Rocket Studios**, Addison, TX; Software Developer Intern

**Jan. 2018 – Aug. 2018**

- **Stack:** Kotlin, Coroutines, Flows, Rx, Dagger2, Android Jetpack, Retrofit, git, jenkins
- Developed features to view and update user profile, add and update credit cards, update billing address and password, and view past transactions for a money transfer application
- Implemented user registration, billing and shipping address screens leveraging the repository pattern using Rx
- Developed an application for a Laser-Measurement device to remotely issue commands, record measurements and sync data with Firestore, including user authentication
- Refactored the Featured Videos sections of the AWE video streaming framework to reduce stuttering by 8%

**Projects** | <https://github.com/rahulsengupta13>

**Architecture Sample, Android**; <https://github.com/rahulsengupta/architecture-sample>

- Developed a reference application keeping modularization and ease of scale in mind
- Implemented deep links with Navigation Components to navigate between feature modules
- Abstracted network and persistence layers with a pure kotlin module with an interface pattern for DTOs to enable swapping out their implementations with ease
- Implemented dependency injection with Koin
- Utilized as a playground for new architecture patterns and Jetpack libraries