

# Aljan A. Porquillo

SOFTWARE ENGINEER · ANDROID · JAVA SE/EE · BACKEND ENTERPRISE/MICROSERVICES

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## Skills & Technologies

<b>Languages</b>	Java • Kotlin • Go • TypeScript • Dart • Python • Unix Bash • Shell
<b>Backend</b>	Spring • J2EE/EJB • JBoss/Tomcat • SQL • PostgreSQL • Solr • Redis • Kafka • Jira • XSLT • Red Hat Linux • Maven
<b>Android</b>	Android SDK • AAC • Compose • Retrofit/OkHttp • Dagger2/Hilt • LeakCanary • Coroutines • RxJava • Gradle
<b>Source Control</b>	Git • SVN • GitHub • GitLab • BitBucket • SourceTree
<b>Cloud Services</b>	Firebase • GCP • Azure • Google Play • Twilio • Docker Hub
<b>Automation</b>	Jenkins • Azure DevOps • GitHub Actions • GitLab CI/CD • JUnit4/5 • Mockito • Espresso • Robolectric

## Work Experience

### Software Engineer

FINASTRA, PAYMENTS

Ortigas Center, Pasig City, PH

Hybrid, Dec 2022 - Present

- Led the development of an instant payment system by transforming monolithic legacy codebases into containerized microservices.
- Worked closely with Service Bureaus to help identify issues in production and UAT environment.
- Exceeded project requirements by designing and implementing a highly-efficient payment and message filter screening with an average latency of just **250ms**, surpassing the initial target of **1-10 second response time** and **failover strategy**.
- Leveraged expertise in **Spring Cloud, Kafka Streams, Avro, Docker, Kubernetes, Azure, and Redis** to achieve outstanding result.
- Implemented **CI/CD** test-pipelines with **testcontainers** to establish integration and unit-testing baseline for all IPS service modules.

### Software Engineer - Intern

FINASTRA, MESSAGING MARKETPLACES

Remote, May 2022 - Dec. 2022

- Design, implement, and maintain mission-critical enterprise applications for real-time payments and sanctions screening.
- Developed several **CLI** reports using **Shell** script and **Java** for banking customers to document their filter activities, acquiring **4 customers** during its initial release.
- Worked closely with the product owner to design and develop standalone business analytic dashboards for banking customers.
- Enforce an innovative approach to improve the existing extraction workflow implementation, effectively reducing the filter screening analysis time by **22%**.

### Freelance Android & ML Developer

GURU ASANA YOGA AI

Quezon City, PH

Remote, Aug. 2022 - Jan. 2023

- Developed an ML-powered yoga app for real-time pose detection using **Google ML Kit & MediaPipe's GHUM3D BlazePose** models.
- Designed the overall UI interfaces from **Dashboard** to **Camera** interfaces using custom **Views, Jetpack Compose**, and **XML** layout.
- Extensively utilized **Java Executors** and **Kotlin Coroutines** to handle long-running operations of tracking human 3D landmarks.

### Freelance Android & Backend Developer

PREGGO - UST NUTRITION AND DIETETICS

Sampaloc, Manila, PH

Remote, Dec. 2021 - May 2022

- Led the development from designing the architectural solutions such as **multi-module, MVI, MVVM**; integrating third-party libraries.
- Optimized the complex UI components by breaking them into smaller chunks of custom views using **Views/ViewGroup** components.
- Implemented a backend service using **Spring Boot** framework along with **Retrofit** and **OkHttp** for **RESTful API** communication.
- Handled the **Google Cloud Platform (GCP)** environment for the entire project lifecycle: **Cloud Storage, AppEngine, Cloud Firestore**.

### Freelance Android Developer

Sampaloc, Manila, PH

TRUCKME, UST

Remote, Aug. 2021 - Dec. 2021

- Integrated a real-time car location tracker using **Socket.io** and **RxKotlin** on top of **Google Play Services, Maps SDK & Places API**.
- Led the complete overhaul of the cross-platform implementation by transitioning from **React Native** to native **Android** using **Kotlin**.
- Integrated a real-time synchronization between the admin and driver variants for improved coordination and tracking efficiency.

### Freelance Android Developer

Sampaloc, Manila, PH

F1kDAYSWITHU - UST NUTRITION AND DIETETICS

Remote, Dec. 2020 - Apr. 2021

- Led the development from design and testing prior to app release in the **Google Play Store**.
- Utilized **Google Analytics** to decrease the number of bugs impacting **75% of crash-free users** and increase engagement by generating and implementing fixes and new features.

## Education

### BS in Computer Science with Specialization in Software Engineering

FEU INSTITUTE OF TECHNOLOGY

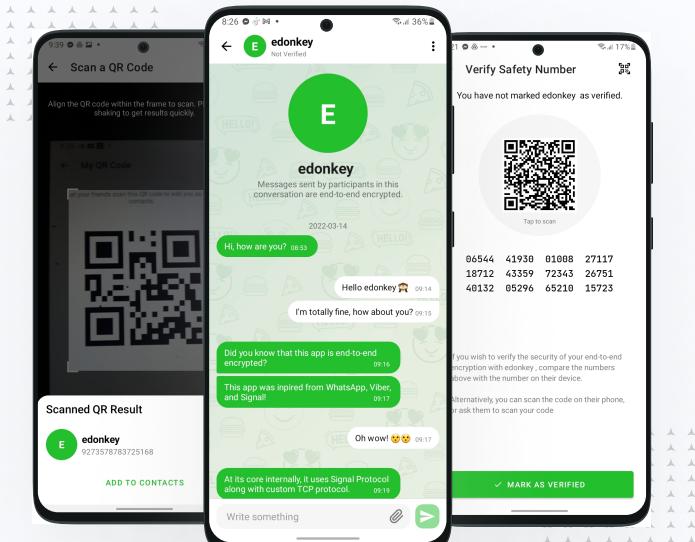
Manila, Philippines

Aug. 2018 - Dec. 2022

- President's Committee on Culture Scholar, 2018 - 2019
- Financial Academic Scholar, 2021 - 2022

# Mobile App Portfolio

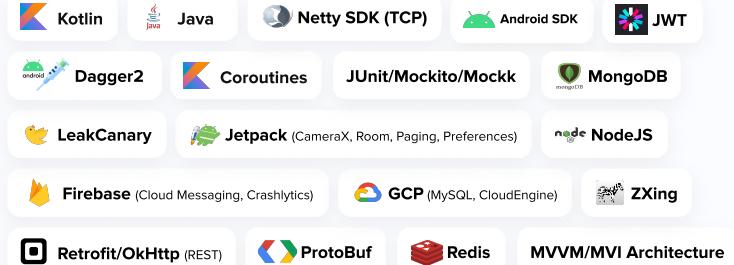
by Aljan Porquillo  <https://github.com/forceporquillo>



## Telebrown Messenger

[turbogiants/telebrown](https://turbogiants/telebrown)

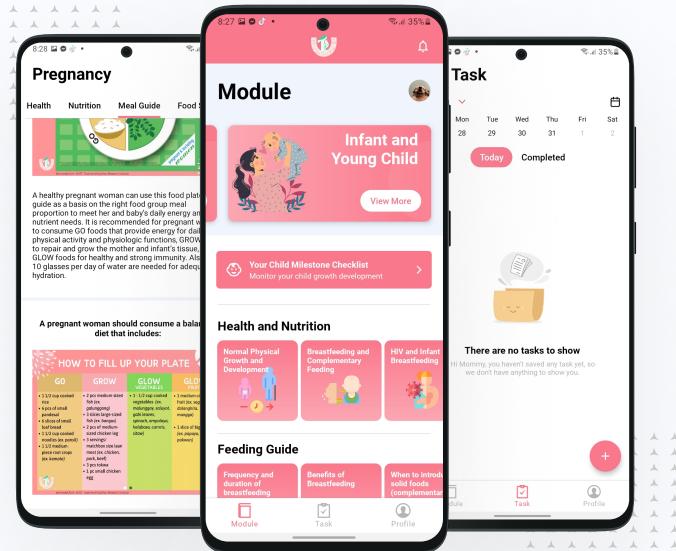
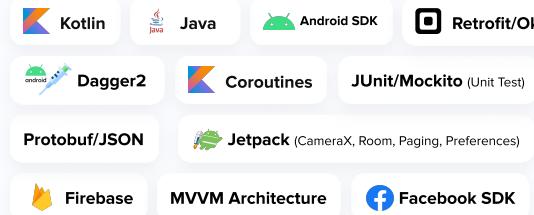
A private End-to-End Encrypted Messaging Application inspired from Signal, WhatsApp, and Viber. At its core, it integrates the [Signal Protocol](#) cryptographic modules to achieve the E2EE messaging and secure communication.



## F1KDaysWithU

[googleplay/f1kdayswithu](https://googleplay/f1kdayswithu)

Development and Pilot Testing of an Android Mobile Application on the First 1000 Days of Life to Improve Maternal and Infant Nutrition.



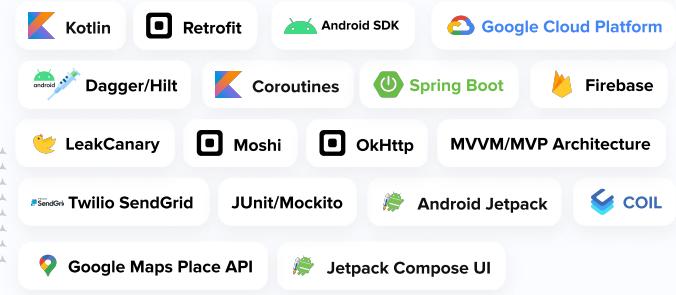
<https://apru2021.iccreg.com/e-poster/pdf/178.pdf>



## Preggo.

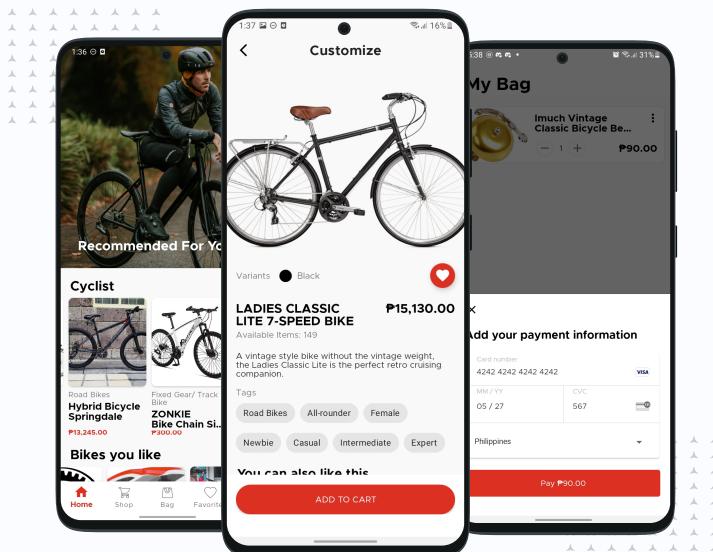
[behance/preggo](https://behance/preggo)

An Android application that aims to help mothers track their pregnancy.



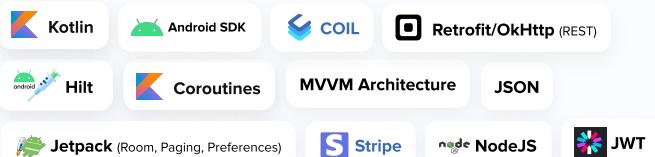
Google Maps Place API

Jetpack Compose UI



iPadyak

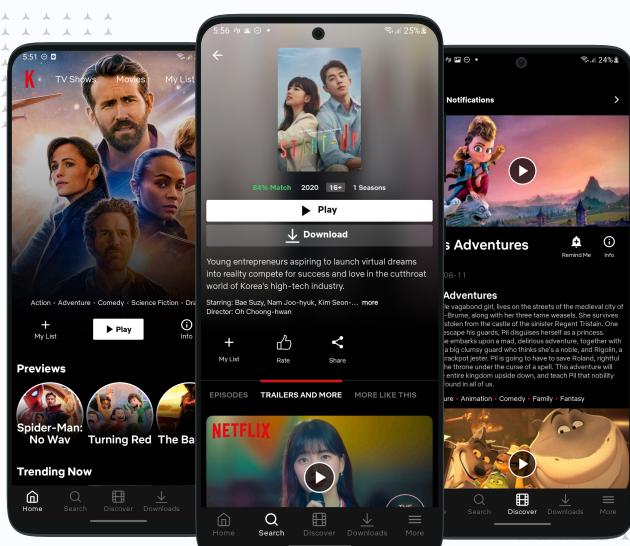
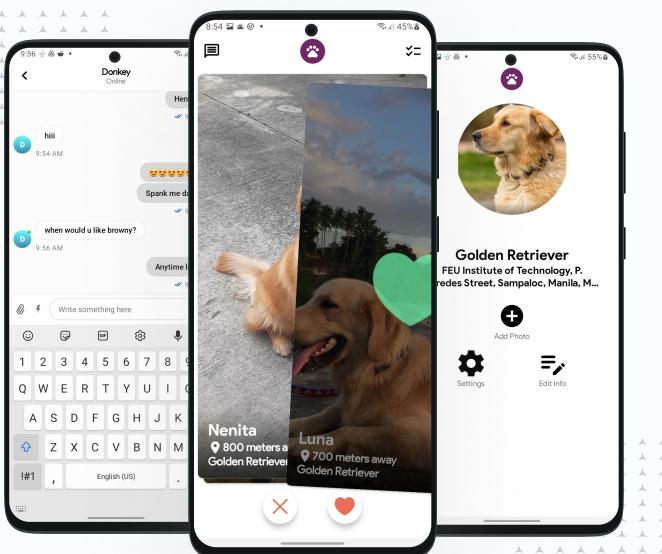
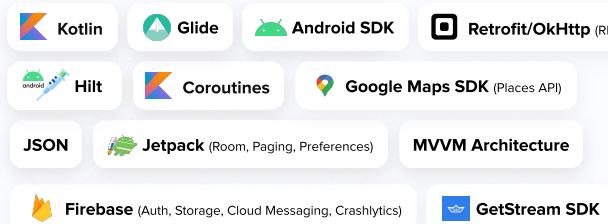
A Mobile E-Commerce app variant with Inventory Management and Recommender System for MBR Bike Shop.



## PawMance

[github/pawmance](https://github/pawmance)

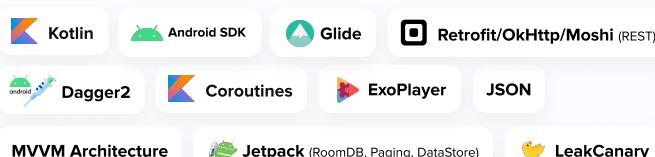
🐶 A Tinder-inspired pet breeding application showcasing the use-case of **Gale-Shapley Algorithm** and the **Haversine Algorithm**.



Kotflix

[github/kotflix](https://github/kotflix)

📺 A Netflix clone parody app use to demonstrate the current Android tech-stacks and best practices using **TMDB API** for fetching list of movies and TV show details.

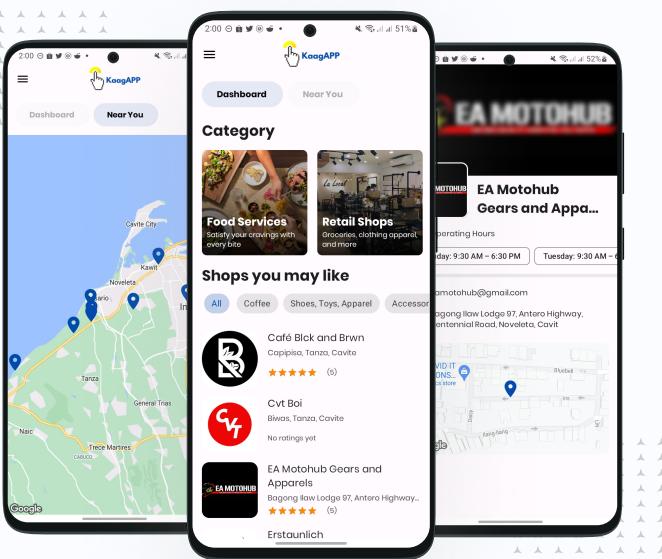
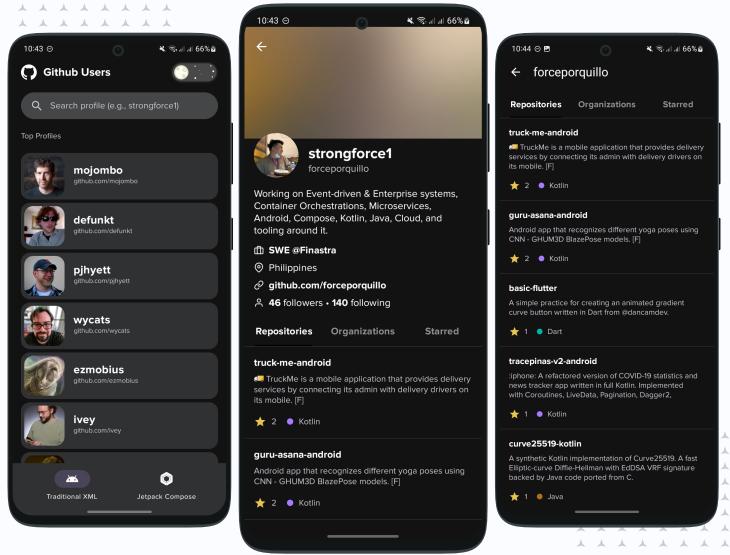




## Github Users

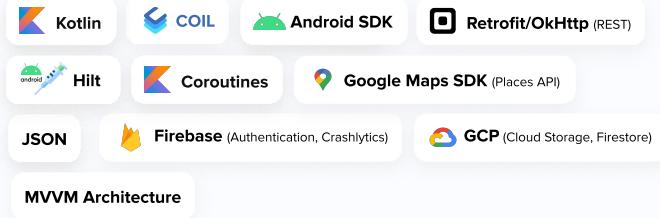
[github/hov-github-mvi](https://github.com/hov-github-mvi)

💻 A GitHub profile search app that enables users to swiftly search and view developer profiles, organizations, starred repositories, and bios, all by fetching the data from the [GitHub API](#).



## KaagApp

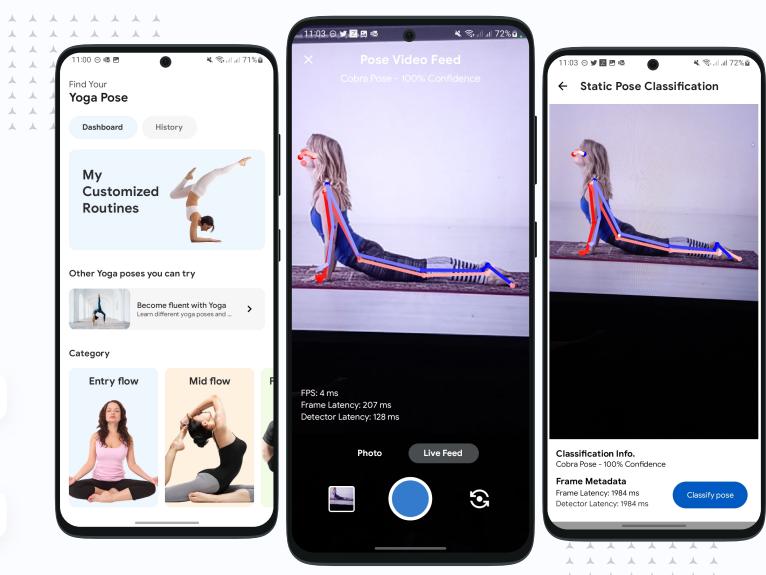
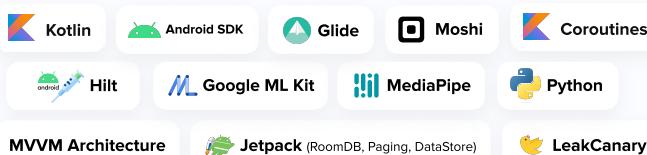
🌐📍🏢 An Android app that highlights and promotes local businesses in Cavite, Philippines, spanning retail, food services, and repair services.



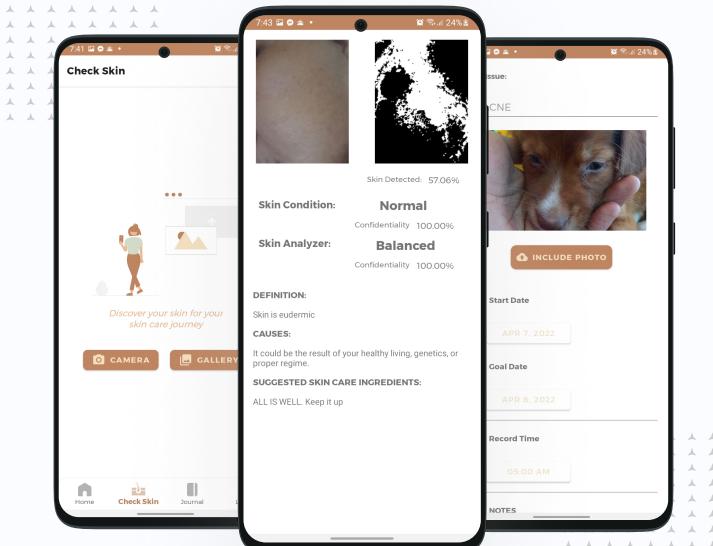
## Guru Asana

[github/guru-asana](https://github.com/guru-asana)

🧘‍♀️ A ML-based yoga app that recognizes different yoga poses utilizing lightweight **CNN** techniques to recognize various yoga poses. Implemented with **CameraX**, **Google ML Kit**, and **MediaPipe's GHUM3D BlazePose** 3D landmark models to accurately recognize poses in real-time.



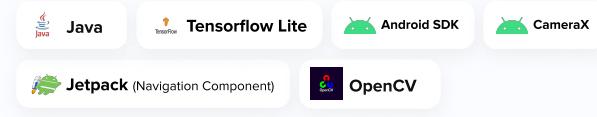
Python source code used to train the **3D pose landmark** tracking models:  
<https://github.com/forceporquillo/guru-asana-yoga-pose>



## SkinCap

[github/skincap](https://github/skincap)

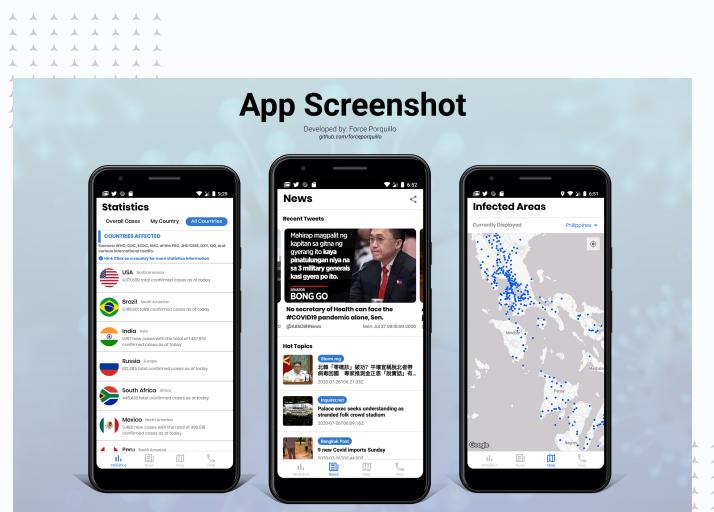
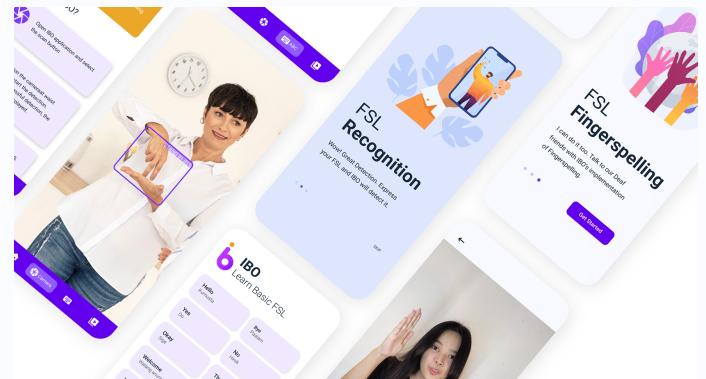
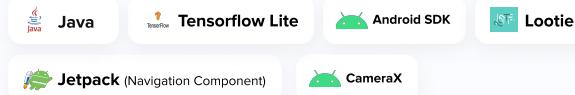
A mobile application for detecting and determining the kind of skin types or skin problems using object recognition techniques.



## IboFSL

[github/ibofsl](https://github/ibofsl)

An Android application with three main features. Real time detection of Filipino Sign Language, Fingerspelling & Translator, and Videos demonstrating proper gesture to sign the 15 basic FSL Words.



## TracePinas

[github/tracepinas](https://github/tracepinas)

A COVID19 statistics and news tracker app based on MVVM, Repository, and Clean Architecture. Implemented with Pagination, RxJava, Dagger2, LiveData, Retrofit2, Room, Data Binding, Twitter, News.org, and various COVID19 related open APIs.



Listed to Global COVID19 Apps: <https://github.com/abuuzyar/coronavirus-apps>