

# SAGAR KHURANA

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## Skills

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**Languages:** Kotlin, Java, Groovy, Javascript/Typescript, GraphQL.  
**Lib/Frameworks:** Jetpack Compose, Retrofit, Hilt, Navigation Component, Nodejs, Express.  
**Tools:** Android Studio, Gradle, Postman, Github Actions, Docker, Figma.  
**Platform:** Unix, Firebase, AWS Amplify.  
**Databases:** SQL, NoSQL, MongoDB, Firestore, Realtime-Database, DynamoDB.

## Work Experience

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**Adjust GmbH** Nov 2021 – Present  
*Android SDK Engineer* Remote

- Wrote **Unit tests** with **80% - 90%** code coverage, and used **mutation testing** to detect weaknesses in the test data.
- Used **Example-based testing** and **Property-based testing** techniques for Unit testing the entire domain code which exposed design flaws and improved the code quality by eliminating complexity and dead code.
- Revamped app from legacy code to new layout design and **Kotlin** code, and replaced all the deprecated dependencies.

**Google Summer of Code** May 2022 – Present  
*Open Source Developer at Robolectric* Remote

- Convert the Java module tests to Kotlin, to make them more concise and build out support for Kotlin build scripts.
- Fix all the **error-prone** warnings for the entire project, this reduces the noise generated from the warnings.
- Experiment with writing parts of Robolectric in Kotlin, to adopt Google's Kotlin-first advocacy.

**Aspire Digital Credit Card** Apr 2021 – Oct 2021  
*Android Engineer* Remote

- Developed an algorithm to periodically sync messages in chunks to the server using **Work manager** and **Room**.
- Fixed bugs from **crashlytics** which enhances the crash-free users from **90% to 99%** and the user experience.
- Incorporated new screen design for latest features using **XML** and using **Retrofit** for implementing backend API's.

**Freelance Work** Apr 2019 - Mar 2021  
*Full Stack Developer* Remote

- Worked part-time during studies on **65+ projects** on [Upwork](#) and [Fiverr](#) with 98% customer satisfaction.
- Handled software lifecycle phases from understanding client requirements to designing, development, and maintenance.
- Fixed coding errors, upgrade interfaces, and improved overall performance for apps written in **Kotlin/Java**.

## Projects

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**Progress Button** - [Github](#) | *Android Library, SOLID Principles, Custom View* June 2021

- Built an **Android library** for handling different button states like active, disable, and reset with a single line of code.
- Extended the view class to implement the functionality and support to directly declare the attributes in the **XML** instead of adding them programmatically.

**Assignmenthub** - [Github](#) | *Android, UI/UX Design, AWS Amplify, MVVM Architecture, CI/CD* Feb 2021

- Participated in [AWS Amplify hackathon](#), got runner up and **500\$**. Designed and implemented the data modeling in **GraphQL** with directives to create the model class and build one-many, many-to-many relationships between tables.
- Used **AppSync** to test the **GrapQL API** response which ensures the response and then stores data in **DynamoDB**. Maintained the code quality using **Github actions** for Build, **Lint** job.

## Volunteering Experience

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**GirlScript Summer of Code** Feb 2022 - Present  
*Project Mentor* Remote

## Education

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**Jan Nayak Chaudary Devi Lal Memorial College** Sept 2019 – May 2022  
*Bachelor in Computer Application* Sirsa, Haryana

**Courses:** Data Structures & Algorithms, Operating System, System Design, DBMS, Object Oriented Programming, Design Patterns.