

Nour Siwar

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EDUCATION

University of California, Irvine

Bachelor of Science in Computer Science, GPA: 3.7

Graduation: March 2026

Santiago Canyon College

Associate of Science in Computer Science, GPA: 4.0

Graduation: June 2023

EXPERIENCE

Android Product Engineer Intern

June 2024 – September 2024

ESRI (Environmental Systems Research Institute, Inc.)

Redlands, CA

- Refactoring [ArcGIS Maps SDK Sample Viewer](#)'s codebase to Jetpack Compose and Kotlin, utilizing concepts of **SharedViewModel**, **Kotlin Flows**, **Preferences** **DataStore**, and using 3rd party libraries such as [Coil](#), [CodeView](#), and [Android Markdown](#), improving app's maintainability and responsiveness
- Migrate ArcGIS Maps SDK projects to Kotlin and Jetpack Compose, following the **MVVM** architecture, enabling 200,000 users to learn more about the SDK. Sample tutorial projects include:
 - * From Java and XML, such as [Find Closest Facility from Point](#)
 - * From Kotlin and XML, such as [Generate Offline Map](#)

Android Developer - Undergraduate Research

July 2023 – Present

University of California, Irvine Health

Irvine, CA

- Engineer and road map server-app integration for a Convolutional Neural Network-based app in a team of 5 using **Kotlin**, and **CameraX** to aid Glaucoma patients in accurately identifying eyedrop medication
- Optimize user interactions by restructuring the scanning functionality, making it more user-friendly and allowing older patients to view their doctor's prescription using XML and Android concepts of Fragments and Activities
- Integrate QR code reading functionality using [code-scanner](#) library, simplifying the process for patients to conveniently access their doctor's prescriptions without the need for manual code entry
- Set up a database using **Room** to store QR code information, allowing for local storage and offline content access
- Expand feature functionality to retrieve data from the database using **SQL** to display QR code information on the fragment, as well as using expandable RecyclerView to show doctor instructions efficiently
- Facilitate converting the project's UI from **XML** to **Jetpack Compose** and implementing the **MVVM** architecture to enhance maintainability and separation of concerns

Android Software Engineer Intern

Jan 2024 – Apr 2024

SiriusXM

Remote

- Researched and crafted a comprehensive tech design document for three project components, including **WorkManager** and batch processing techniques to streamline execution and enhance decision-making processes
- Verified and validated mapping data behavior between SiriusXM and [Google Engage SDK](#) using **Charles Proxy** to analyze API data transmission, mock snapshot data with JSON, and **unit testing** to ensure feature functionality
- Implemented a **Broadcast Receiver**, enabling real-time data updates from Google Engage SDK, addressing data staleness concerns, and showcasing SiriusXM content in a dedicated channel outside of the app
- Showcased project to an audience of 50, including Android teams, executives, and leaders, emphasizing the feature's potential to provide immersive experiences in personalized content discovery, driving company growth

PROJECTS

Chordinate | *Kotlin, Jetpack Compose, Spotify SDK, ArcGIS Maps SDK for Kotlin, ArcGIS Online*

[DevPost](#)

- Prototyped a collaborative project with a team of 5, leveraging [Spotify SDK](#), ArcGIS Products, and Android Development tools to enhance user engagement by showcasing local listening trends to Spotify's 626 million users
- Aggregated Spotify data, including album, artist, and track information, in real-time using a BroadcastReceiver
- Implemented Spotify authentication through the Spotify auth-lib and secured the retrieval of currently playing tracks using Shared Preferences, facilitating initial testing and project integration
- Merged usage of [ArcGIS Maps SDK for Kotlin](#) and [ArcGIS Online](#) to display Spotify's real-time data on the map and show users what others around them are listening to

TECHNICAL SKILLS

Languages: Kotlin, Jetpack Compose, XML, SQL, Python, C++, Java

Tools: Android SDK, Charles Proxy, PostgreSQL, Git, Github, JUnit testing, Firebase