

Daniel Perez

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Experience

Software Engineer

November 2023 - Present

Tesseract Ventures, Remote

- Maintained Android and C# applications for physical construction site access, using gRPC and Protocol Buffers to use streaming and request/response communications for app functionality.
- Set up tracking our cloud infrastructure by importing our Google Cloud Platform and Azure resources into Terraform to maintain and update environments for developers, our QA team, and customers.
- Improved security of our Cloud infrastructure by configuring Virtual Private Networks with sensitive resources to disable public IP Addresses and reducing our attack surface.

Android Engineer

September 2021 - June 2023

Govenda, Remote

- Configured a hybrid architecture in the Android applications user interface layer, integrating Jetpack Compose with XML Views to accelerate development through a company-wide redesign while supporting phone and tablet screen sizes.
- Set up Dagger 2 to facilitate a Model-View-ViewModel architecture, enhancing feature development, maintenance, and collaboration for engineers.
- Utilized testing tools such as Robolectric and JUnit to identify regressions, ensuring a stable and reliable application for users.
- Employed Kotlin Coroutines, Flows, and the Repository pattern in the app's business layer to manage network data and SQLite data, streamlining integration with the user interface.
- Configured a developer-only flavor of the application to improve debugging and development without compromising the user experience and application security.

Systems Engineer

May 2020 - September 2021

Walmart, Remote

- Received a department award for constructing an internal PowerShell module and application that saved the team over 40 hours weekly by automating diagnostics for customer issues.
- Served as a Subject Matter Expert for Payment Card Industry automation projects by submitting project requirements and collaborating with an offshore development team.
- Automated bulk customer ticket processing, saving hours of manual work for the team and myself.

Achievements

- 9+ years of experience with Kotlin and Java.
- Strong familiarity with popular Android libraries including Dagger 2/Metro, OkHttp, Retrofit, Moshi, RxJava, Okio, SQLDelight, and SQLCipher.
- Former developer for the Android version of Razorback Transit - Live Maps. Used RxJava2 to model the buses API as a stream of information to give students quick, live updates about bus locations.
- 9 years of experience with Gradle, using it for Android, Java, and Kotlin Multiplatform projects.
- Developer of Pourover, a Kotlin Multiplatform app to assist with making pour-over coffee by calculating grams and grams/pour needed to achieve a desired sweetness and strength.

Education

University of Arkansas

August 2016 - May 2020

B.S., Computer Science