

# Daniele Della Cioppa

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## Education

### ITIS

IT Engineer Computer Science

30/05/2008

Caserta, IT

### ACL ESSEX

Lvl 3 IT SolTech Software Development

22/06/2023

Brentwood, UK

## Experience

### Akhter Computers

Software Developer

December 2021 – Present

Harlow Town, UK

#### Architecture and App Structure

- Dependency Injection: I'm using Dagger Hilt for dependency management within the application. This is not only to simplify dependency management but also to promote testability and scalability of the code.
- MVVM and LiveData: Adopting the MVVM (Model-View-ViewModel) pattern along with LiveData to focus on separating concerns and building a reactive architecture that enhances UI state management by responding to data changes.
- Compose UI: My use of Jetpack Compose for the UI is simply to adopt the latest Android libraries for building a declarative, modern, and high-performance user interface.

#### App Functionality

- User Profile and Configuration Management: I'm developing systems for managing user profiles and app configurations, allowing dynamic changes in the application based on these parameters.
- Security and Controlled Access: Generating code sequences for authentication using security measures to ensure that only authorized users can access certain features.
- Device Automation and Control: In my job I usually deal with "lock task mode," "device policy manager," and package management. This is to implement advanced functionalities for controlling and limiting device usage in specific contexts (MoD, Military, and NHS), such as kiosk mode or for corporate applications.

#### Testing and Code Quality

- Unit and Integration Testing: At the moment I'm employing a combination of JUnit4, Espresso, and Mockito to write tests covering both the application logic and the user interface interactions, to create reliable code and ensuring app quality. What I don't want is to run manually all the tests which becomes impossible as the system gets bigger.
- Static Code Analysis: I'm using Using detekt for static code analysis. This makes Linter on the Continuous Integration Pipeline even more demanding and gives me a hand in maintaining standards of code quality, readability, and adherence to Kotlin best practices.

#### UI/UX

- Interface Customization: I'm customizing the user interface, by using composables to manage wallpapers, opacity, and the overall UI layout. This is to improve user experience.

#### Challenges and Solutions

- Resource Management and Packaging: I'm still tackling specific challenges related to resource packaging and dependency conflict management (e.g., issues with Mockito), resolving complex Gradle build and configuration problems.

## Projects

### DroidTerminal

- An Android app that provides a Linux-like terminal interface for executing commands and scripts on your device. With DroidTerminal, you can perform a wide range of operations, from basic file manipulation to network administration and system configuration

### Custom Launcher




- Creating a custom launcher for Android. The main objective is to have a drawer button on the home screen which will launch a RecyclerView where all the items are being displayed. Keep it Simple to save battery

## ZipJsonModifier

- › An Android app that allows you to modify JSON files contained in a ZIP archive. The app provides a simple interface that lets you browse your device's file system to select the input and output ZIP files.

### Skills

**Languages** Italian, Spanish, Catalan, English, German, Chinese

**Programming Languages** Java , Kotlin, XML, HTML ,  $\text{\LaTeX}$ , postgresSQL, OracleSQL, bash 

### Hobbies

- › Mindfulness, Jojo Bizarre Adventures, videogames, recording podcast, baking, trekking, cycling

### Android versions

- › 8.0 (Oreo), 9.0 (Pie), 10.0 (Q), 11.0 (R), 12.0 (S), 12L (S), 13.0 (T)