Alysson **Cirilo Silva**

Software Engineer + Android Developer

Remote (UTC-3), Brazil

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Experience

Microsoft

Remote, Brazil

Senior Software Engineer — *Mar. 2025 – Present*

Software Engineer II — *Jul. 2022 – Mar. 2025*

- Worked on a geographically distributed team delivering features on the voice assistant in Outlook Android app.
- Enabled consistent Microsoft Copilot experience across multiple mobile apps by developing an SDK using **Jetpack Compose**,
- Improved code maintainability by adapting a callback-based SDK to **Kotlin Flow**, simplifying the codebase.
- Optimized code review workflow by integrating a common set of static analysis and lint rules across all libraries on the project, enabling reviews to focus on architecturally significant decisions rather than small details.
- Achieved a 57% improvement in CI pipeline performance by identifying and decomposing independent work into parallel jobs and properly configuring **Gradle** builds.

iFood

Remote, Brazil

Android Developer II — *Apr. 2022 – Jul. 2022*

- Improved developer experience and productivity by implementing a dependency injection model for checkout plugins, replacing the previously, inefficient, manual injection approach.
- Improved user engagement and feature adoption by implementing dynamic onboarding feature, allowing PMs to control the order and timing of onboarding based on remote configs and plugin availability.

Android Developer I — *May. 2021 – Apr. 2022*

- Worked at the checkout team on a **single-activity**, plugin-based architecture based on **Dagger**.
- Created a script to manage code ownership, making the process less error-prone given the frequency teams structure changes.

Meta (Consulting Company)

Remote, Brazil

Android Developer — *Sep. 2020 – May. 2021*

- Delivered a digital wallet and credit card rewards app for a major bank in Brazil, using Coroutines and **Koin**, while also integrating a code coverage tool into the app's **multi-module** structure to enhance maintainability and testing.
- Enhanced app security by implementing a digital signature subsystem for all HTTP requests using **OkHttp interceptors**.
- Designed a testable biometric authentication abstraction adapting the original callback syntax to coroutines.

State Secretariat for Penitentiary Administration of Maranhão (SEAP-MA)

São Luís - MA, Brazil

Mid-level Developer — *Jul. 2020 – Sep. 2020*

- Significantly enhanced system security by proactively identifying and eliminating critical SQL injection vulnerabilities,

Entry-level Developer — *Sep. 2019 – Jul. 2020*

- Enhanced system maintainability by developing a **Spring Boot** backend with **MongoDB**, creating a unified and flexible API for history tracking across multiple systems, simplifying feature development and eliminating numerous legacy history tables.
- Ensured compliance with legal requirements and avoided significant fines during the COVID-19 pandemic by enabling families to schedule virtual visits with incarcerated relatives through a **Clean Architecture** Android app using **Kotlin** and **Coroutines**.

Laboratory of Intelligent Distributed Systems (LSDi)

São Luís - MA, Brazil

Intern — *Apr. 2017 – Jul. 2019*

- Designed and implemented an IoT solution for building occupancy detection, using Android devices and **Arduino**-powered BLE beacons to identify interactions. Events were processed and published to a backend system built with **Spring Boot**, leveraging **Retrofit**.

Projects & Publications

- **Resume:** The tool that built the resumé that you are reading right now.
- **Cirilo's Algorithm:** An algorithm for finding the smallest pair of values between two unsorted arrays.
- **Jetpack Compose – Don't throw your presenters off:** Article about using model-view-presenter (MVP) on Jetpack Compose.
- **Internet of Things Applied to Presence and Meeting Management of People in Smart Buildings:** Paper on mobile computing and IoT.

Education

Federal University of Maranhão (UFMA)

São Luís - MA, Brazil

BSc. in Computer Science — *2013 – 2019*