Janaina Ribeiro-Locatelli

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SUMMARY

Senior Embedded Android Software Engineer with 10+ years of experience developing native Android solutions for **connected appliances and embedded consumer devices**. Expert in Kotlin, Java, and Android SDK with deep experience integrating mobile software with **hardware components, IoT platforms, sensors**, and Linux-based systems. Proven ability to design modular Android libraries and system-level features for constrained devices, applying Clean Architecture and MVVM. Strong background in OTA updates, Bluetooth/Wi-Fi connectivity, device diagnostics, and cross-team collaboration in Agile environments.

TECHNICAL SKILLS

- **Languages**
  - Kotlin, Java (11+), C++, C#, Python

- Embedded & System-Level Android

  - Android on embedded devices
  - HAL interactions (high-level), hardware/software integration
  - OTA update workflows
  - Device provisioning, diagnostics & logging
  - Bluetooth/BLE, Wi-Fi, IoT connectivity
  - AWS IoT communication
  - XML UI for embedded screens
  - Performance optimization on constrained hardware

- Android Application and Library Development

  - Android SDK, MVVM, Coroutines, LiveData
  - Android Library/SDK Development (Gradle/Maven)
  - Custom Views, Material Design
  - Modular architecture for multi-product environments

- Testing & Tooling

  - JUnit, Espresso, Robot Framework
  - GitHub, Jenkins CI/CD
  - Linux environments, Bash
  - Agile/Scrum

PROFESSIONAL EXPERIENCE

Whirlpool Corporation – *Senior Embedded Software Engineer*

2018 – October 2025

- Led Android development for **embedded touchscreen interfaces** used in premium connected cooking appliances, working closely with firmware and hardware teams.
- Designed and maintained **Android libraries and SDKs** consumed across multiple appliance lines and internal engineering teams.
- Implemented **device–cloud communication**, using REST/JSON and AWS IoT for connectivity, telemetry, diagnostics, and secure OTA updates.
- Built **performance-optimized Android UIs** in XML for low-resource embedded hardware, including custom views and reusable UI components.
- Collaborated with firmware engineers to ensure seamless **Bluetooth/Wi-Fi provisioning**, data exchange, and device lifecycle management.
- Improved reliability of embedded apps through **unit tests, instrumentation tests, and automated CI pipelines** using Jenkins and Git.
- Created internal frameworks and reusable modules for embedded Android deployments, reducing code duplication across product lines.
- Worked daily in **Linux-based Android environments**, contributing to debugging, system logs, and device-level troubleshooting.
- Applied architectural patterns (Clean Architecture, MVVM, MVP, Factory, Delegation) to ensure code maintainability and long-term platform stability.
- Developed applications for smart appliances using Java and Kotlin, enabling advanced connectivity, automation features, and interactive user experiences.

Dwyer Instruments – *Calibration & Test Software Engineer*

2014 – 2018

- Developed **C# and Java desktop applications** for calibration and testing of sensor systems.
- Implemented **real-time data handling and device integration**, laying foundation for connected applications.
- Created **SQL-based validation tools** and supported production test environments.

M&O Sistemas – *Software Developer*

2011

- Built fleet management features in **C#**, leveraging SQL for backend.
- Enhanced **frontend usability** through web and desktop components.

Render – *Intern, Software Development*

2010 – 2011

- Designed desktop UIs with **Flex/ActionScript**.
- Early exposure to **JavaScript-based applications**.

EDUCATION

UDESC – Universidade do Estado de Santa Catarina – Brazil

Bachelor's in Computer Science, 2005 – 2010

CERTIFICATIONS

- Beginning Game Programming with C#
- Advanced Manufacturing Lean Practitioner – Purdue University
- English Language & Cultural Training