Roberto Merlos



SENIOR SOFTWARE ENGINEER

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SUMMARY

Senior software engineer with 6+ years building and modernizing mobile applications and backend systems. Experience spans Android, Kotlin Multiplatform, Spring Boot, Google Cloud, and Python AI tools, with a record of leading engineering initiatives, improving developer productivity, and delivering software at scale.

TECHNICAL SKILLS

Languages Kotlin, Python, Java, Swift, C++
Mobile Android SDK, Jetpack Compose, Material 3, Kotlin Multiplatform, Compose Multiplatform
Backend and cloud Spring Boot, Ktor, REST APIs, Google Cloud Platform (GCP), Firebase, Docker
AI and data OpenAI API, ADK, prompt engineering; PostgreSQL, MySQL, MongoDB, SQLite, SQLDelight
Engineering tools Git, Jenkins, Android Studio, IntelliJ, Coroutines, StateFlow

PROFESSIONAL EXPERIENCE

Lowe's | Charlotte, NC
Senior Software Engineer (Android / Mobile) Apr 2020 - Present

- Delivered features for the consumer Android app used by **millions of customers**, owning work from design through production with a focus on performance and scalability.
- Led organization-wide adoption of **Jetpack Compose**, reducing UI development time by approximately **25-35%**; introduced **Material 3**, reusable components, and modular architecture standards.
- Built and maintained **Spring Boot services on Google Cloud**, supporting scalable APIs and thousands of daily requests.
- Reduced operational costs by approximately **$5K-$10K per month** through workflow optimization and performance improvements.
- Provided technical leadership for **8 engineers**, driving architecture decisions and mentoring developers while reducing defect rates by approximately **30%**.
- Implemented controlled rollouts with **Firebase Remote Config** and improved **CI/CD and automated validation with Jenkins**, supporting release quality and engineering productivity.

Selected project **Python AI Copilot** | Company hackathon

- Built a **Python AI copilot** using the **OpenAI API** and Lowe's **Agent Development Kit (ADK)**, enabling associates to navigate multiple internal systems through a conversational interface.

PERSONAL PROJECTS

Colludium | Android and iOS · In development

- Developed an event-discovery and scheduling app using **Kotlin Multiplatform and Compose Multiplatform**, sharing UI and business logic across Android and iOS.
- Reduced duplicated platform-specific code by approximately **40-60%** through shared, modular architecture.
- Implemented location-based discovery and real-time interactions with **Firebase**, **Ktor**, **SQLDelight**, and **Coroutines/StateFlow**.

Companion website project-colludium.web.app

EDUCATION

City University of New York - College of Staten Island
Bachelor of Science in Computer Science · GPA 3.7 · Cum Laude