

# LUCAS SELANI

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Senior Mobile Engineer (Flutter) | Software Architect

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## PROFESSIONAL SUMMARY

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Senior Software Engineer with 6+ years of experience specializing in high-performance Mobile Development. Currently protecting 10M+ users at Will Bank by integrating complex backend requirements with seamless Flutter experiences. Expert in bridging the gap between product and engineering through Server-Driven UI (SDUI) and automation. Proficient in **Flutter, Dart, Rust, and TypeScript**, with a strong background in Native Android.

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## TECHNICAL SKILLS

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- **Mobile:** Flutter (Expert), Dart, Android Native (Kotlin/Java), iOS (Swift basics).
  - **Architecture & Systems:** Clean Architecture, Server-Driven UI (SDUI), Micro-frontends, Monorepos.
  - **Backend & Tooling:** Rust (High-performance tools), TypeScript, Node.js, CI/CD (GitHub Actions/Bitrise).
  - **AI & Automation:** LLM Integration (Ollama, Gemini), FFmpeg, Playwright, Python.
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## PROFESSIONAL EXPERIENCE

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**Will Bank** | Remote **Senior Mobile Engineer** | Nov 2024 – Present Fintech with 10M+ users. Focused on Fraud Prevention and Security.

- Engineered the "Cash-in/Cash-out" security flows, designing adaptive challenge mechanisms that analyze user data in real-time to approve transactions.
- Architected a **Server-Driven UI (SDUI)** module to decouple security challenges from app releases, enabling instant hotfixes and A/B testing without App Store reviews.
- Developed high-performance tooling using **Rust** to serialize backend structs into JSON for the Flutter SDUI engine, ensuring type safety and p99 latency compliance.

**Unico IDtech** | Remote **Senior Flutter Developer** | Jul 2020 – May 2024 Brazil's leader in digital identity. Scaled the core mobile product.

- Architected and scaled a multi-module Flutter super-app serving **200k+ active users**, integrating secure facial biometrics and digital documents.
- Designed the foundational **Core Module** and **Design System**, creating a reusable widget library used across all company Flutter projects.
- Established a robust CI/CD pipeline within a **Trunk-Based Monorepo**, automating testing and enabling a reliable weekly release train to App Stores.

**Toodoo** | São Paulo, Brazil **Mid Android Developer** | Feb 2019 – Jun 2020

- **Burger King & Natura:** Developed high-impact features for major clients, including a digital banking module for Natura and geofenced promotions for Burger King.
- **Wooza:** Built a Native Android app from scratch to facilitate phone carrier portability.
- **Health Tech:** Delivered a hybrid React Native application enabling doctors to manage digital prescriptions.

**Inatel Competence Center (ICC)** | Minas Gerais, Brazil **Software Developer & QA** | Jul 2014 – Jan 2019

- **Backend (Ericsson Project):** Developed backend solutions for a large-scale telecom project with 400+ employees.
  - **Mobile:** Assisted in the development and maintenance of native Android applications for 1.5 years.
  - **QA Specialist:** Started career with 3 years in Quality Assurance, conducting security, performance, and usability testing.
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## KEY PROJECTS

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**Darkrunner - Automated Video Pipeline** | *Private Monorepo Technologies: TypeScript, Remotion, Playwright, Node.js, LLMs*

- Designed a fully autonomous content creation pipeline that orchestrates AI agents (Scripting, Planning, QA) to produce YouTube videos programmatically.
  - Built a **TypeScript** ecosystem integrating **Remotion** for programmatic video editing and **Playwright** for web automation.
  - Implemented local AI integration (Ollama, ComfyUI) to generate assets (images, TTS, scripts) on demand.
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## EDUCATION

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**BSc in Computer Engineering** | 2014 – 2018 Inatel - National Institute of Telecommunications

**Languages:** Portuguese (Native), English (Advanced/C1)