

Rodolfo Arguello

Software Engineer Flutter & Mobile Developer

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SUMMARY

Software Engineer with **8+ years** building production mobile applications, specialising in **Flutter**, **native iOS/Android**, and **C++**. Currently a Flutter Developer at **RODE**, where I lead the adoption of **agentic AI** workflows across the engineering team and own delivery of **25+ shipped products** spanning consumer apps, kiosk software, and audio production tooling.

Deep focus on **UI/UX** craft and **accessibility-first** design — work I've shipped has been recognised at the **2025 Australian Access Awards** (Accessible App & Government App of the Year). Hold a **Bachelor of IT — Mobile Application Development** from AIT (2019), looking for a creative environment working with state-of-the-art technology.

CORE COMPETENCIES

Frameworks	Flutter, Dart, Tauri, native iOS (Swift), native Android (Kotlin/Java), React Native
Languages	C++, Dart, Swift, Kotlin, Java, JavaScript/TypeScript, Python, PHP
Web & Backend	React, Next.js, Laravel, Node.js, REST/GraphQL APIs, Firebase, SQL
AI & Automation	End-to-end automated workflows, Codex & Claude expert
UI/UX & Accessibility	WCAG, Vision Australia & QDN engagement, inclusive design, user research, Figma, design systems
Testing & Quality	Unit / widget / integration tests, Appium, Redux saga & reducer coverage, full automation suites
Tools	Git/GitHub, Neovim, Xcode, Android Studio, Cursor, Claude, Figma, Linux/macOS

PROFESSIONAL EXPERIENCE

Flutter & C++ Developer RODE

Sydney, Australia **Jul 2024 — Present**

- Product:** Own delivery across **25+ products** — companion apps for microphones & mixers (**Flutter**), low-latency audio engines in **C++**, kiosk software, and internal production tooling.
- KPI:** Cut development & delivery time by **~98%** by introducing **agentic AI** workflows and full delivery + test automation across the team; remaining 2% reserved for human verification.
- BAU:** Architect per-product integrations, maintain release pipelines across **25+ SKUs**, harden workflows, and act as the team's reference for **AI adoption** & tooling.
- CI:** Built kiosk-management & production-line software that automates manual workflows in factory ops, replacing repetitive labour with software.
- UX:** Drive accessible, native-feeling Flutter UI patterns across the consumer product line.

Flutter Developer Code Heroes

Sydney, Australia **2023 — 2024**

- Product:** Built features for the **Queensland Digital Licence** app — government identity in **Flutter** used by Queenslanders to carry driver's, marine & recreational licences on their phones.
- KPI:** Recognised at the **2025 Australian Access Awards** — won both **Accessible App of the Year** and **Government App of the Year**; co-designed with **Queensland Disability Network** and **Vision Australia**.
- BAU:** Built end-to-end **Appium / Java** automation suites covering core user journeys, plus business-logic coverage across **Redux** reducers, sagas and selectors.
- UX:** Implemented **WCAG**-grade screen-reader, large-text and high-contrast paths from spec through to production.

Mobile Developer Kmart Australia

Melbourne, Australia **Apr 2022 — Dec 2022**

- Product:** Shipped the **Kmart Australia** app — now serving **1.3M+ monthly active users** (Wesfarmers FY2025 reporting).
- KPI:** Migrated the legacy stack from **web-view** to a **native React Native** codebase, unblocking performance, deep-linking, and store-grade UX.
- BAU:** Built the CMS-driven dynamic content layer, **SQL** caching for catalogue browsing, and **Auth0**-backed account and order flows.
- UX:** Tuned screens for large-scale retail — accessibility, large-tap targets and resilient offline states.

Web Designer Smiggle

Melbourne, Australia **Aug — Oct 2021**

- Product:** Hand-coded **HTML email templates** for retail campaigns delivered to the full Smiggle customer base across AU/NZ/UK markets.
- KPI:** Turned creative briefs into shippable assets — illustrations, animations, MP4/GIF banners — directly from **Photoshop** into responsive email markup.
- UX:** Owned composition, layout and brand-consistent design across kids-retail audiences with strong accessibility & legibility constraints.

EDUCATION

Bachelor of IT — Mobile Application Development Academy of Information Technology (AIT)

Sydney, Australia **2016 — 2019**

Completed subjects: C++ · Cross-Platform Applications · Foundation & Advanced Programming · Intro to Software Engineering · OS Development · Web Development & Advanced Web · Android Development · Data-Driven Apps (Java) · Database Systems · Information Systems · Enterprise Systems · System Analysis & Design · Foundation Networks · Digital Project Management · Artificial Intelligence · UX/UI · Advanced Studio · Discrete Maths · Professional Internship Program · External Project.

ADDITIONAL

- Work rights** 482 Sponsor visa (open to transfer)
- Looking for** Creative environments working with state-of-the-art technology
- Interests** Clean Architecture · AI engineering · Flutter · Automation