



Patrick Jackson

Product engineer with 15+ years shipping mobile products and platform infrastructure — deep Android/Kotlin depth, multiplatform systems, real-time media, and open source. I take ideas end-to-end: product, architecture, delivery, and the systems around the code. AI-native: I use agents for code and processes where they excel.

Meta Messenger & Facebook Prod Infra · AbleTo · Ticketmaster

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Experience

- Meta** Seattle, WA
Senior Software Engineer July 2023 – July 2026
- Championed the **org-wide Java-to-Kotlin conversion**; led the Messenger **Android platform upgrade across multiple teams**, reducing migration risk for a large-scale codebase.
 - Designed and implemented **FeatureConfig**, a framework adopted across xapp teams giving many apps modular configuration behind an enforceable API.
 - Optimized and refactored **Composer**, a shared message-composition framework — including an agent-driven rewrite of its code-generation layer and Kotlin compiler plugin, verified with unit and invariance tests and launched with zero issues. Prod Infra on-call at billion-user scale.
- Software Engineer Nov 2021 – June 2023
- Built and shipped the **Halo** redesign for Messenger Calling; led cross-platform system design of **Local Media Sharing** — real-time audio/video on Android at scale.
 - Cut user-facing bugs and improved devx by introducing **unidirectional state management** (Redux) and **ReduxKotlin** to Messenger Calling. A/B tested Calling improvements with product, design, and data.
- AbleTo** Remote
Senior Engineer III Sept 2019 – Nov 2021
- Led Android on Joyable in a HIPAA-regulated environment; drove the rewrite from web-based to fully native; interviewed and mentored to build the team.
 - Owned Android **CI/CD**, Play Store releases, and automated testing — JUnit, Espresso, screenshot testing.
- Ticketmaster** Durham, NC
Senior Engineer II Oct 2016 – Jan 2019
- Authored an **open-source Kotlin/Java SDK** for Actions on Google over a reusable core powering Google Assistant, Alexa, Facebook chatbot, and Cortana. US Patent 9,892,252 B1.
 - Built components used serverside and in Android to complete purchases through Ticketmaster APIs.
- Willowtree / Two Toasters** Durham, NC
Senior Android Engineer 2014 – 2015, 2019
- Shipped Android products across many clients — National Geographic, Regal Cinemas, JackThreads, Project Ara. Audited client codebases; spoke at Droidcon NYC.
- FireApps** Wake Forest, NC
Founder / Developer — Android, iOS & web for firefighter incident dispatch 2011 – 2016

Skills

- ◆ Kotlin & Java (Deep)
- ◆ Android Framework & Internals
- ◆ Kotlin Multiplatform
- ◆ Jetpack Compose
- ◆ Coroutines, Flow & RxJava
- ◆ Multi-Module Architecture
- ◆ WebRTC / Real-Time Calling
- ◆ Platform & Framework Design
- ◆ AI-Native / Agentic Development
- ◆ MVVM / Redux / Clean Architecture
- ◆ CI/CD, Testing & Screenshot Tests
- ◆ Technical Leadership & Mentorship

Projects

- ReduxKotlin** 2015–current
Kotlin Multiplatform state-management library on Maven Central; shared core with a clean public API, adopted by external developers.

Awards

- US Patent 9,892,252 B1** 2014
Hologram ticket view, Ticketmaster.

Education

- UNC Asheville** 2003
Environmental Studies · Asheville, NC

Profiles

- ◆ patjackson52
- ◆ patrick-jackson-engineer