Paul Peavyhouse — Principal/Staff Mobile Engineer (Android • iOS)
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Target Role

Principal Engineer – Mobile (Digital Ecommerce), Costco IT (Req 9941) — On-site Issaquah, WA

Summary

Android specialist with **17+ years** native Android (Kotlin/Java, AOSP) and **15+ years** cross-platform (iOS Swift/Obj-C, RN/Flutter). Principal-level owner across architecture, performance, CI/CD, testing, and delivery for high-scale, real-time, and IoT systems. Led teams, mentored across levels, established standards, and partnered closely with backend/platform groups on REST/microservices, security, and observability. Record of shipping: **>500K** AOSP devices; public-safety **PTT**; consumer **BLE/IoT**; open-source with **6M** downloads.

Costco Fit — Highlights

- **Android & iOS leadership:** Set architecture, standards, modularization, reviews; hands-on contributor and mentor.
- **APIs & microservices:** Designed/consumed **REST** contracts and WebSocket streams with Java/.NET teams; optimized async flows and telemetry; ready to extend to GraphQL/gRPC.
- **Performance & reliability:** Profiler-driven tuning for UI responsiveness, memory/network/battery; Crashlytics gates; audio/video and BLE services at scale.
- **Headless CMS patterns:** Built dynamic config/content delivery & remote-config frameworks; familiar with content models, caching, sync; fast ramp on **ContentStack**.
- **CI/CD & release:** Migrated **100+ repos** and **100+ jobs** from BitBucket to GitLab; automated build/test/release and versioning governance.
- **Team leadership:** Mentored engineers, ran design reviews, owned risk/escalations; operated a 20+ device hardware/software lab; frequent cross-org and on-site customer work.

Professional Experience

Mynd.ai / Promethean — Seattle, WA

Staff Android Software Developer • ActivPanel 9 (AOSP) Tech Lead (2020–2024)

- Led Android **AOSP** for 65"/75"/86" interactive panels (AP9/AP9 Pro) from POC/EVT/DVT/PVT to **GA 1.0 (May 2022)** through **2.3 (Nov 2024)**; **>500K** units shipped.
- Owned system architecture: 20-point touch, HDMI/DP/EDID/CEC/ARC, audio (**AEC/AGC/NS**), **MDM/EMM**, telemetry, OTA, data regionalization.
- Defined **REST** contracts; implemented client SDKs and observability (**Firebase Crashlytics**, Mixpanel); established quality gates.
- **CI/CD:** Migrated **100+ repos** Bitbucket→GitLab and **100+ jobs** Bamboo→GitLab CI; automated build/test/release and versioning; instituted coding standards and mentoring; ran a 20+ device **PromLab** for profiling/tuning.

Stack: Android (Kotlin/Java, AOSP/NDK), Audio/Video, BLE/Wi-Fi/Ethernet, **AWS** (S3, EC2, Lambda, CloudFront, Cognito, AppSync, DynamoDB), GitLab CI, Firebase Crashlytics, Mixpanel.

Pebblebee — Issaquah, WA

Senior Mobile/Android Developer • Tech Lead (2015–2020)

- Architected and shipped **BLE/IoT** consumer apps (Android & iOS): background BLE scanning (Samsung Knox-aware), battery-efficient device comms, and **crowd GPS**.
- Built robust **REST** layers, offline sync, and analytics/crash pipelines (**Firebase**, Realm); coordinated closely with device firmware.
- Led day-to-day technical execution, triage, mentoring, and App/Play release management.

Stack: Android (Kotlin/Java), iOS (Swift/Obj-C), BLE/GATT, React Native, NativeScript, AWS DynamoDB, Firebase, Realm.

Twisted Pair Solutions (Motorola Solutions) — Seattle, WA

Staff Principal/Lead Senior Mobile Engineer (2010–2014) • **SDET/Senior SDET** (2009–2010)

- Led Android/iOS/BlackBerry/WinCE **push-to-talk (PTT)** apps (WAVE/MOTOTRBO): low-latency audio, secure transport (**TLS/X.509**), resilient Wi-Fi/cellular.
- Owned app architecture, reviews, modularization, CI; delivered **on-site** deployments (US Army, USSS, MGM Resorts, Trimble).
- Earlier SDET: built Python/C# automation, network protocol tools (incl. **Wireshark dissector**), coverage dashboards, and continuous build systems.

Stack: Android SDK/NDK, Kotlin/Java, Obj-C/Swift, .NET/C#, Python, SIP/VoIP, audio codecs (AMR/G711/Opus/Speex/PCM), Jenkins/Maven/Gradle, Sonar/JaCoCo, Robotium/Robolectric/JUnit.

Google — Seattle, WA (2005–2009)

SDET (GOOG-411 & Google Voice VoIP backend; Google Pack/Chrome Auto-Update) — Built SIP/pjsip automation and performance tooling for VoIP backends; drove continuous build, load/stress testing, and client automation.

Microsoft — Redmond, WA (1998–2005)

SDET – RTC/Distributed Meetings/Exchange — Tested Windows CE **VoIP/SIP** audio/video devices and services; authored tools for sound quality, performance, deployment, and UI across firmware/drivers/server APIs.

Open Source & Notable Projects

- **DistroAV (OBS-NDI)** — Admin/Maintainer, Lead Dev (2023–present). OBS Studio NDI plugin; **~6M downloads**, ~10K Daily Active Users, ~4K stars, ~400 forks.
- **AlfredAI (Android + Wear) & Realtime/WebRTC tooling** — Kotlin + WebRTC push-to-talk AI assistant; added WebRTC to realtime APIs.
- More: GitHub profiles above (Qt/NDI, audio processing, Chrome extensions, telemetry).

Technical Skills

Android: Kotlin/Java, AOSP/NDK, Jetpack, services/HAL, profiling (perf/memory/network/UI), Play release. •
iOS: Swift/Obj-C, Instruments, XCTest. • **APIs:** REST/JSON, WebSockets; API contracts & client SDKs; offline sync; telemetry. • **Headless CMS:** dynamic content delivery; ContentStack-ready. • **Realtime/Media:** WebRTC/VoIP, audio codecs, **AEC/AGC/NS**, Bluetooth (LE/A2DP/SCO/RFCOMM), **MDM/EMM**. •
Cloud/CI/CD: AWS (S3, EC2, Lambda, CloudFront, Cognito, AppSync, DynamoDB), GitLab CI/Jenkins/Bamboo, Gradle/Maven. • **Testing/Security:** JUnit/Mockito, Robolectric/Robotium, **JaCoCo/Sonar**, Crashlytics; TLS/SSL, **X.509**, DH/ECC, HMAC/SHA.

Patents & Publications

WO2013116741 (TIP-RING-RING-SLEEVE PTT); WO2013154722 (Pulsed Input PTT).
• O'Reilly *Car PC Hacks* (2005). • "Using AJAX to Enable Client RPC Requests" (2008).

Education

Montana State University — Computer Science • Virginia Tech — General Studies

Additional

US Citizen. No sponsorship needed. Seattle area; Issaquah on-site preferred.