Erkki Nokso-Koivisto



Senior Mobile Engineer · Android, iOS, Compose Multiplatform

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PROFILE

Senior mobile engineer with over 25 years in mobile software, from Windows CE, Symbian and J2ME to today's Android, iOS and Compose Multiplatform. A Commodore 64 kid from Vantaa who never stopped taking software apart to see how it works.

Spent nearly 15 years at In4mo (Solera) working across Android, iOS and Windows, the last five leading the mobile development of the Task Reporter app. Primarily focused on Android today (Kotlin, MVVM, Jetpack).

Builds security into apps from the start—from encrypted local databases and hardware-backed storage (Android Keystore, iOS Keychain) to PIN/biometric app locks and Azure MFA. Experienced in securing data in transit with certificate pinning and payload encryption, alongside app hardening via code obfuscation and root/jailbreak detection. Hands-on with PKI (certificates, digital signatures and mTLS) and GDPR-compliant handling of personal data.

SKILLS

Platforms	Android, iOS, Windows
Languages	Kotlin, Java, Swift, Objective-C, C#, JavaScript, SQL
Android & Jetpack	Jetpack Compose, Compose Multiplatform, WorkManager, CameraX, Room, ViewModel, Lifecycle, LiveData, XML UI, Firebase push notifications, Google Analytics
Architecture	MVVM, Clean Architecture, dependency injection (Dagger, Hilt, Koin), reactive programming (RxJava, Kotlin Flow)
Data & networking	SQLite, Room, Core Data, REST, Protobuf
Secure development	PKI, digital signatures, mutual TLS, TLS certificate pinning, payload encryption, Android Keystore, iOS Keychain, encrypted databases (SQLCipher), PIN/biometric app lock, MFA (Azure), root/jailbreak detection, code obfuscation (R8/ProGuard)
Security testing	Pentest analysis, reverse engineering (jadx, Ghidra, Frida)
Tools	Android Studio, Xcode, Visual Studio, VS Code, Git, Gradle, Fastlane, Jenkins, GitLab CI, Bitbucket, GitHub
AI tooling	GitHub Copilot, Claude, OpenCode, local LLMs

WORK EXPERIENCE

Senior Software Engineer — In4mo Oy / Solera Holdings LLC

Oct 2011 – May 2026

Nordic insurtech company building software for property insurance claims and repair, part of Solera since 2019.

- Part of the team developing the Task Reporter app, used by around 10,000 people at insurance companies and repair contractors in the Nordics and Australia to document property damage on site.
- From 2021 onwards, led the app's mobile development and architecture of all new features, with sole responsibility for the Android app's development, build pipelines, Google Play releases, and production support together with the first-line support team.
- Modernised the Android app from Java to Kotlin and to an MVVM architecture with Jetpack components (ViewModel, LiveData, Room).
- Kept the Android app stable, with a crash rate of around 0.2%, and up to date with Google Play requirements, such as annual target SDK updates and policy changes.

- Designed and built the app's best-selling features, including Paper-like Reports, and co-developed In4mo Floorplanner (JavaScript) with the team.
- Maintained the build automation and release pipelines with Jenkins, GitLab CI and Fastlane, and migrated the repositories from GitLab to Bitbucket and later to GitHub.
- Contributed to the iOS app (Objective-C, Swift), and built In4mo's Windows Phone and desktop apps from scratch (C#, UWP, WinUI).
- Implemented the app's security features and fixed findings from external penetration tests.
- Took part in recruiting developers, mentored a junior developer and onboarded new iOS developers to the codebase.

Software Engineer — **Giesecke & Devrient 3S Oy** Oct 2010 – Oct 2011

German security technology company supplying payment cards, SIM cards and mobile payment solutions.

- Part of the team developing G+D's NFC mobile wallet, which provisioned payment card instances, such as credit cards, to the secure element for contactless payments.
- Worked mainly on the Android version, and also on J2ME and on the iPhone version, which used the iCarte NFC accessory years before iPhones had built-in NFC.

Software Engineer — **Icareus Oy** Dec 2008 – Oct 2010

- Built mobile TV and broadcast solutions across J2ME, MHP and set-top box/DVB platforms.
- Developed the Radio Nova streaming app for the first iPhone, and developed and ported games for MHP and J2ME.
- Also delivered backend work (J2EE, Liferay), a SIP VoIP and video conferencing app (J2SE) and a Symbian ringtone app port.

Software Specialist — **Tietoenator Oy** 2005 – Dec 2008

- Lead developer of the TeliaSonera Mobile TV solution (J2ME).
- Development and consulting on TeliaSonera FieldWork (J2SE, J2EE); UI development and backend integration for the TeliaSonera/Vattenfall energy metering automation project (J2EE).

Systems Engineer — **TeliaSonera Oy** 2000 – 2005

- Built mobile and M2M applications, including software for Windows CE in-vehicle communication devices and J2ME mobile solutions: FieldWork (J2SE, J2EE), Sonera Juxto Cargo and Sonera Mobile Office (J2ME).

PROJECTS

- **Task Reporter** — In4mo's mobile app for Android, iOS and Windows. Google Play · App Store · Microsoft Store
- **Frodo** — Commodore 64 emulator for Windows 8.1. Video
- **8086TinyRT** — 8086 emulator for Windows 8.1. Microsoft Store
- **LunzziWatch** — Sodexo app for the Sony SmartWatch 2 (Android). Google Play

EDUCATION

BSc, LAB University of Applied Sciences

LANGUAGES

Finnish (native), English (fluent)