

René Dohán

Senior Software Engineer & Product Lead

Mobile · Full Stack · SDKs · C++ · AI-Agent Workflows

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Professional summary

Senior software engineer and product lead with 20+ years of experience across native Android and iOS, C++ systems and SDKs, and full-stack TypeScript/AWS products. Combines hands-on architecture and development with product specification, stakeholder coordination, release delivery, and long-term product ownership. Uses AI coding agents to accelerate research and implementation while retaining responsibility for architecture, security, code review, testing, and production quality.

Technical, product & delivery expertise

Product engineering

Kotlin · Java · Swift · Objective-C · C++ · TypeScript · React · Vue.js · AWS

AI-agent delivery

Codex · ChatGPT · Claude Code · multi-agent workflows · specification-led delivery · research · implementation · review · testing · debugging · documentation · deployment

Mobile, systems & SDKs

Android SDK/NDK · iOS SDK · SDK and API design · low-latency audio and DSP · device integration · offline-first workflows

Product, project & quality

product specification · requirements analysis · prioritization · stakeholder coordination · architecture · release delivery · technical project leadership · legacy modernization · automated testing · CI/CD · Scrum

Selected professional experience

Senior Web Developer - Equisix

February 2026 - Present

End-to-end delivery of a financial automation SaaS

- Own product specification, architecture, and implementation across the React frontend, TypeScript APIs and workers, AWS infrastructure, secure integrations, billing, observability, and release readiness.
- Built deterministic scheduled and continuous automation runtimes using queues, idempotency, retries, failure recovery, auditable state, and unit, integration, end-to-end, UI-regression, and deployed smoke tests.
- Use AI coding agents to accelerate research and implementation, with explicit specifications and direct accountability for architecture, security, review, testing, deployment, and validation.

React · TypeScript · AWS · SST · DynamoDB · SQS · Vitest · Playwright · AI coding agents

Case study: Equisix Full-Stack Automation Platform

Mobile Product Engineer - Motorkari.cz

June 2024 - Present

Native Android and iOS product ownership and modernization

- Maintain both production apps, modernizing an inherited Kotlin/Java Android codebase and extending the Swift/Objective-C iOS app originally delivered in 2017.
- Deliver UI, performance, push-notification, background-sync, mapping, media, and REST integration improvements while protecting established behavior across both platforms.

Kotlin · Java · Swift · Objective-C · REST APIs · Firebase Cloud Messaging

Case study: Motorkari.cz

Native SDK Engineer (Sequenex team) - Bioling

August 2022 - January 2024

Native SDK delivery for glucose-sensing medical devices

- Delivered iOS and Android SDK work, extended existing iOS applications, and built Swift and Kotlin sample apps that demonstrated device integration.
- Aligned Kotlin SDK behavior with its iOS counterpart and used Gherkin scenarios to define testable behavior before implementation.
- Worked API-first in a multinational remote Scrum team using Git flow, code reviews, and extensive QA practices.

Swift · Kotlin · iOS SDK · Android SDK · SDK/API design · Gherkin

Case study: Bioling Medical SDK

Lead Mobile Developer (via Plaut / Bowbook) - SODB 2021

June 2020 - March 2021

Lead mobile delivery for Slovakia's 2021 national census

- Led native Android and iOS development, translating extensive and changing public-sector requirements into working applications on both platforms.
- Implemented offline data, CSV and service-driven updates, complex form rules, and on-device validation for field workflows that could not depend on continuous connectivity.
- Coordinated months of requirements refinement, acceptance cycles, stakeholders, and supporting developers through delivery under a fixed national deadline.

Kotlin · Swift · Android · iOS · offline data · form validation

Case study: SODB 2021 Slovak Census Apps

Mobile Product Engineer - Bowbook, s.r.o.

April 2014 - Present

Long-term product ownership for the Rcherz mobile and scoring suite

- Built and maintain an Objective-C iPhone/iPad app, a Java Android app, and a dedicated Android scoring terminal for an international archery platform.
- Separated mission-critical competition scoring from the general product and implemented stability controls, remote device commands, polling, push messaging, and resilience for difficult outdoor Wi-Fi conditions.
- Maintain three active native products while sustaining the client relationship and deep product knowledge across an engagement active since 2014.

Objective-C · Java · Android · iOS · REST APIs · push messaging · offline resilience

Case study: Rcherz Suite

Independent product experience

Creator, Product Lead & End-to-End Engineer - Renetik Music Apps

March 2021 - Present

Ten Android products and a low-latency C++ audio platform

- Built ten current Android music applications with at least 170K combined public Google Play installs as of 2026.
- Designed a reusable C++ audio engine for real-time DSP, sequencing, FX chains, metronomes, MIDI I/O, recording, looping, and multi-instrument playback.
- Built and maintain the VuePress 2 and Vite product website with custom Vue components, documentation, optimized media, analytics, canonical SEO, and combined-site release validation.
- Own product direction, roadmap, priorities, UX, architecture, Kotlin implementation, Firebase services, automated testing, releases, support, and feedback-driven iteration.

Kotlin · C++ · Android SDK/NDK · Firebase · VuePress 2 · Vue 3 · TypeScript · Vite · Espresso · UI Automator · JUnit

Renetik Music Apps · Case study: Renetik Music Apps

Earlier experience

Additional full-stack and product delivery 2018 - 2025

Delivered coordinated Android, .NET GraphQL, and MySQL changes for Sensoneo; PHP/Yii/PostgreSQL work for Plaut; and mobile, Vue.js, Firebase, Spring, and AWS product work for other clients.

SaaS, desktop, and document systems 2005 - 2010

Progressed from junior to senior developer at QualityUnit across Java, C#, PHP, JavaScript, GWT, J2EE, Eclipse RCP, OCR, SaaS products, and PDF parsing/generation, with Scrum, TDD, and pair programming.

Education

Bachelor's Degree in Computer Software Engineering · Slovak University of Technology in Bratislava

Native mobile portfolio and reusable foundations 2010 - 2020

Delivered iOS and Android applications for Motorkari.cz, TRIAD, LiveAgent, Post Affiliate Pro, and other clients while building reusable Objective-C, Swift, Java, and Kotlin libraries used across professional projects.

Early IT foundation 1997 - 2001

Built practical systems knowledge through PC assembly, software installation, customer support, Windows and Linux administration, networking, AutoCAD support, HTML, and wireless telecommunications work.