

# MUSTAFA KOÇER

Product Engineer

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## Summary

Product Engineer building Android and iOS apps and the backends behind them, end to end. Ships Kotlin Multiplatform and native Android apps to Google Play and measures performance on real devices.

## Skills

**Mobile**: Kotlin, Jetpack Compose, Kotlin Multiplatform (KMP), Compose Multiplatform, Swift, SwiftUI
**Backend & Infra**: TypeScript, Cloudflare Workers, Fastify, PostgreSQL, Python, Docker, Linux, GitHub Actions
**Native & Performance**: C++/JNI, PDFium, ML Kit, MediaPipe, CameraX, Baseline Profiles, Perfetto
**Architecture**: Clean Architecture, MVVM, MVI, Hilt, Koin, Room, SQLDelight, WorkManager, Unit Testing

## Experience

**enoca**
*Android Developer Intern* — *June 2025 – Aug. 2025*
- Developed UI and state logic with Jetpack Compose and the MVI architecture.
- Applied Clean Architecture across a multi-module codebase to keep features isolated and maintainable.

**Atmosware**
*Android Developer Intern* — *July 2024 – Aug. 2024*
- Built an OCR module with CameraX and ML Kit for real-time text recognition.
- Worked in an Agile/Scrum team within an enterprise software development lifecycle.

## Projects

**JustRelax** | *Kotlin Multiplatform, Compose, SwiftUI, Cloudflare Workers* — *Live on Google Play*
- Shipped v3.0 for Android and iOS from a shared KMP core (34 Gradle modules); offline-first, 12 languages.
- Built a TypeScript Cloudflare Workers backend that keeps API keys off the device, verifies Play Integrity and App Attest, rate-limits each install and powers AI-generated sound scenes.
- Cut cold start by 25% (764 ms to 571 ms) with Baseline Profiles; 468 Kotlin unit tests run in CI.

**TilePDF** | *Kotlin, Jetpack Compose, C++/JNI, PDFium, Room, WorkManager* — *Closed beta on Google Play*
- Built a PDF reader and editor with forms/XFA, signature verification, on-device OCR and incremental saves.
- Compiled a custom PDFium via JNI (4 ABIs) and wrote a tile renderer from scratch (about 12 ms median zoom frame time); 481 unit and 191 instrumented tests.

**GalleryCleaner** | *Kotlin, Jetpack Compose, MediaPipe, ML Kit* — *Closed beta on Google Play*
- Built on-device AI that groups similar shots, picks the best frame, and flags screenshots and blurry photos.
- Reached about 100 ms per photo on a 6,000-photo gallery; parallel analysis halved batch time (7.9 s to 3.7 s).

**TileNotes** | *Fastify, PostgreSQL, Drizzle, Better Auth, BullMQ, Docker* — *In progress*
- Building my own sync backend for a notes app: versioned sync protocol, conflict handling, Google sign-in.

**Self-Hosted Deployment Platform** | *Coolify, Docker, Traefik, Cloudflare, Tailscale, Linux*
- Built a Coolify PaaS on an Ubuntu VPS with Git-push deploys, hosting mustafakoceerr.com and a client site.
- Designed a zero-open-port setup (Cloudflare Tunnel, SSH only over Tailscale, admin panel behind Cloudflare Access) and hardened containers (read-only FS, cap-drop ALL, non-root).

**Open Source:** Compose Theme Manager, Compose Language Manager | *Android libraries on JitPack*

## Education

**Çanakkale Onsekiz Mart University**
*B.Sc. in Computer Engineering | GPA: 3.37/4.00* — *Sep. 2020 – Jan. 2026*

## Languages

English (B1–B2), Turkish (Native)