



KOSTIANTYN VOLKOV

FULL-STACK IOS DEVELOPER

ret.kol.az@gmail.com

Ukraine

+380664780116

Telegram: @its_now_its

PROFESSIONAL SUMMARY

Product-focused Full-Stack iOS Developer with 3-4 years of Swift/SwiftUI experience and 1.5 years of commercial development. Build scalable iOS applications and production backend services with modular architecture, REST APIs, subscriptions, analytics, AI/content pipelines, admin tools, background workers, and Dockerized deployment.

PROFESSIONAL EXPERIENCE

iOS Developer

Midnight.Works | Remote

Sep 2025 - Present

- iOS Developer (NDA): shipped production SwiftUI features with focus on stability, performance, and clean modular architecture.
- Built complex navigation flows with deep stacks, sheet/fullScreenCover, and reliable gesture-back behavior.
- Integrated REST APIs and improved data-heavy screens using pagination/prefetch and offline caching.
- Implemented analytics with Firebase/Amplitude to track product funnels and support product decisions.

Middle-Senior iOS / Full-Stack Developer

Polorix | Remote

Jan 2024 - Sep 2025

- Developed commercial iOS applications from scratch, taking products from idea and architecture to App Store release.
- Owned end-to-end product delivery across iOS, backend integration, testing, debugging, deployment, and post-release support.
- Built scalable app architecture using Swift, SwiftUI, UIKit, Core Data, REST APIs, StoreKit, RevenueCat, App Groups, and Apple system frameworks.
- Built production backend services with Python 3.11, FastAPI, Starlette, Uvicorn, SQLAlchemy 2, Alembic, Pydantic v2, PostgreSQL 16, Redis 7, RQ, and RQ Scheduler.
- Implemented JWT auth, Apple Sign In, Google Sign In, RevenueCat-ready subscription verification, APNS service, quotas, limits, and reset logic.
- Delivered AI/content pipelines with OpenAI API, Gemini API, Whisper, PyTorch, Transformers, Tiktoken, OpenCV, Pillow, Tesseract OCR, pytesseract, yt-dlp, gallery-dl, Trafilatura, BeautifulSoup, HTTPX, and Requests.
- Built product backend features: Explore feed engine, recommendation/similarity ranking, reviews, ratings, Google Places imports, collections visibility, translation service, and admin notifications.
- Managed Dockerized production deployment with Docker Compose, internal Docker network, PostgreSQL/Redis persistence, .env config, Nginx reverse proxy, healthchecks, workers, scheduled sync services, and data volumes.

Freelance iOS Developer

Self-employed | Remote

Feb 2022 - Sep 2024

- Delivered multiple iOS apps end-to-end: onboarding, authentication, subscriptions, push notifications, offline caching, analytics, and App Store releases.
 - Built app extensions and cross-target data sharing via App Groups (widgets, keyboard, reports).
 - Implemented subscriptions (RevenueCat/StoreKit) and paywall flows with free-tier limits.
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EDUCATION

Bachelor (in progress) - Computer Engineering

Kharkiv National University of Radio Electronics (NURE)

2024-2028

SELECTED PROJECTS

Klad: Save, Organize & Plan (SwiftUI + Backend)

<https://kladapp.com> | <https://apps.apple.com/ua/app/klad-save-organize-plan/id6754760495>

- SwiftUI app for saving and organizing content into collections with offline cache, REST APIs, RevenueCat, Firebase/Amplitude, and APNS.
- Built modular UniversalCardV2 UI, fixed complex navigation, and improved stability on large datasets.
- Backend/product work included Explore feed, recommendations, reviews, ratings, collections, quotas, translations, and admin tooling.

Polorix Content & Metadata Platform (FastAPI)

- Backend pipeline for content ingestion, metadata extraction, AI enrichment, OCR, video/audio/image processing, and scheduled sync.
- Integrated OpenAI, Gemini, Google Places, Bright Data, TikTok, Instagram, YouTube, Threads, TMDB, Google Translate, and DeepL-ready providers.
- Built embedded FastAPI admin dashboards plus React 19 + Vite + TypeScript TikTok metadata extractor tool.

Nexyra Wi-Fi & LAN Diagnostics

- Production network utility: diagnostics, device discovery, port scan, reports, and Quality Score.
- Implemented long-running tests and edge-case handling using system networking APIs.
- Subscriptions via RevenueCat and analytics via Amplitude including Session Replay.

Aura Widgets (iOS 17+) - Photo Widgets & Trackers

- Widget builder with photo slots and interactive trackers for Home Screen.
- WidgetKit + AppIntents + App Groups storage; fixed widget memory/performance edge cases.

Blockkr - Screen Time Control

- Usage monitoring and app blocking by time/steps.
- SwiftUI + Screen Time API + FamilyControls + DeviceActivityReportExtension + App Groups.

NureSchedule - Calendar & Timetable

- Custom SwiftUI calendar (week/month) with schedule sync from JSON API.
- MapKit routing + Look Around preview flows; optimized updates to avoid UI jumps.

Superboard - Custom AI Keyboard

- Custom keyboard with voice input and quick replies.
- Swift/SwiftUI + KeyboardKit + REST AI integration + App Groups; reduced input latency.

TECH SKILLS

- Languages: Swift, Python 3.11, TypeScript, JavaScript, SQL
- UI: SwiftUI, UIKit, server-rendered FastAPI HTML, CSS dashboards, Vanilla JS, React 19 + Vite
- Architecture: MVVM, modular architecture, REST APIs, offline caching, background jobs
- Backend: FastAPI, Starlette, Uvicorn, SQLAlchemy 2, Alembic, Pydantic v2, PostgreSQL 16, Redis 7, RQ, RQ Scheduler
- AI/ML: OpenAI API, Gemini API, Google Generative AI SDK, Whisper, PyTorch, Transformers, Tiktoken
- Content pipeline: OpenCV, Pillow, Tesseract OCR, pytesseract, yt-dlp, gallery-dl, Trafilatura, BeautifulSoup, HTTPX, Requests
- Product features: Explore feed, recommendations, reviews/ratings, collections, premium subscriptions, quotas, translations, APNS
- Integrations: Google Places, Google Auth, Apple Sign In, RevenueCat, Telegram Bot API, Bright Data, TikTok, Instagram, YouTube, Threads, TMDB, Google Translate, DeepL-ready setup
- Infrastructure: Docker, Docker Compose, internal Docker network, PostgreSQL/Redis persistence, .env config, Nginx reverse proxy, healthchecks, workers, scheduled sync services
- Apple frameworks: WidgetKit, AppIntents, App Groups, Screen Time API, MapKit, Keychain, URLSession
- Analytics and notifications: Firebase, Amplitude, APNS, Telegram admin notifications