

Dmytro Barannik

Software Engineer

Ukraine · Available for full-time remote work · B2B

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dvsbarannik.github.io · linkedin.com/in/dmitry-barannik · github.com/KaKyHaC · [Google Play portfolio](#)

PROFILE

Software engineer delivering production applications since 2017, with commercial depth in Android and Flutter and hands-on work across web, C++ and IoT. Turns product requirements and research ideas into maintained software, from architecture and implementation to review, release and support.

Android & Flutter · Web & Edge · Modern C++ · IoT · Applied research

25,000+ Google Play downloads	PhD + patent Applied research	Mobile · Web · C++ · IoT Engineering range
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CURRENT PRODUCT WORK

Dimalina Studio Independent Product Developer & Publisher

Sep 2017 - Present · Current independent product work

- **Built and published a multi-product Android portfolio** with 25,000+ cumulative downloads, covering product design, implementation, Firebase services, monetization and Google Play delivery.
- **Released consumer products with real-time and AI features** including online multiplayer and a Gemini-powered personal CRM that proposes structured contact and event updates for explicit user confirmation.
- **Applied AI-assisted development in daily delivery** for task decomposition, implementation and test drafting; reviewed generated changes and validated them through builds, automated tests and manual checks.

SELECTED ENGINEERING WORK

ESMEE - Bionic Prosthetics Platform Lead Web Architect & UI/UX Engineer

Oct 2026

Built a modular medical product platform in Next.js and React with accessible product pathways, patient inquiry flows, structured medical metadata and Cloudflare Pages delivery.

LibPolyCodec: Data Compression Library C++ Software Architect

Jun 2026 - Present

Developed a cross-platform C++20 compression library with modular encode/decode pipelines, explicit allocation policies, CMake toolchains and SIMD implementations for desktop and mobile.

RELEVANT COMMERCIAL EXPERIENCE

MEGOGO Android Developer

Mar 2025 - Nov 2025

- **Modernized the Android streaming client** by migrating legacy XML UI to Jetpack Compose and improving navigation and error handling across modules.
- **Delivered playback entry, access-control and deep-link flows** for mobile and Android TV using ExoPlayer-related product workflows, Install Referrer and custom URI schemes.

CHI Software Lead Android Developer / Android Developer

Sep 2020 - Mar 2025

- **Delivered mobile systems across healthcare, smart home and security** combining Kotlin architectures with camera, map, authentication, local data and hardware integrations.
- **Led technical delivery** through architecture decisions, code review, developer mentoring, technical interviews and CI/CD practices.

ADDITIONAL COMMERCIAL EXPERIENCE

Nitrix Studio **Android / Flutter Developer**

Aug 2018 - Aug 2020

- **Built native Android and Flutter applications** using Kotlin, Java, Dart, MVVM/MVP and BLoC with REST APIs, WebSockets and local persistence.
- **Delivered media experiences** with ExoPlayer playback, offline downloads, Android Auto integration and Android TV adaptation.

IT Company **Android Developer**

Sep 2017 - Jun 2018

- **Developed LiftApp elevator dashboards** in Java with a native C++ SerialPort library for continuous FT232 hardware communication.
- **Built device-management workflows** for Wi-Fi Direct remote configuration, boot handling and automated application updates on installed tablets.

SELECTED SYSTEMS, WEB & IOT WORK

ProKlimat - HVAC Platform **Lead Frontend Engineer & UI/UX Architect**

Oct 2026

Built an Astro-based commercial HVAC platform with service configuration, quote calculators, persistent theming, structured search metadata and edge deployment.

Distributed IoT LoRa Sensor Network **IoT Firmware Engineer**

Sep 2025 - Dec 2025

Developed ESP32/LoRa telemetry firmware with sensor acquisition, radio communication, MQTT integration and embedded C++ components.

TECHNICAL CAPABILITIES

Mobile	Kotlin, Java, Jetpack Compose, Android SDK, KMP, Flutter/Dart, Coroutines, Flow
Web & edge	Next.js, React, Astro, JavaScript, CSS, Cloudflare Pages, accessibility, structured data
Systems & IoT	C++20, CMake, Android NDK/JNI, SIMD, ESP32, LoRa, MQTT, BLE, Wi-Fi Direct
Architecture & data	Clean Architecture, MVVM/MVI, REST, WebSockets, Room, Firebase, SQLite
Quality & delivery	JUnit, Mockito, Robolectric, code review, CI/CD, release ownership, technical mentoring
AI-assisted delivery	Task decomposition, implementation and test drafting, code review, build and behavior validation

EDUCATION

PhD (Doctor of Philosophy) · **Electronic Communications and Radio Engineering**

Kharkiv National University of Radio Electronics (NURE) · 2020-2025

Master's Degree (With Honours) · **Computer Engineering**

Kharkiv National University of Radio Electronics (NURE) · 2018-2019

Bachelor's Degree · **Computer Engineering**

Kharkiv National University of Radio Electronics (NURE) · 2014-2018

TEACHING & APPLIED RESEARCH

KhNUIA · **Associate Professor at the Department of Combating Cybercrime**

Sep 2026 - Present

MITI · **Lecturer at the Department of Communication Systems and Networks**

Aug 2025 - Sep 2026

PhD research in steganographic coding and secure video transmission. Co-inventor of utility model patent **UA No. 144599** (2020): Method of non-equilibrium positional coding to reduce the information intensity of the video stream.

LANGUAGES

English - B2 (Upper-Intermediate); Ukrainian - native.