

Vladislav Muravyev

Senior Software Engineer / Applied AI, Mobile & Web

Dubai/Moscow / hvw@ya.ru / dabaga.cc / GitHub

Profile

I build end-to-end applications across applied AI, mobile and web: interfaces, native bridges, backend services and the data flows between them. My work includes embedding-based skill routing, structured application context and local model workflows, alongside health applications, BLE devices, firmware, secure messaging and Web3.

Technical focus

Kotlin, Compose, KMP; Swift, UIKit, SwiftUI; Flutter, Dart

TypeScript, React, Next.js, three.js; Go, Python, Rust, C/C++

BLE, nRF52, Zephyr, FreeRTOS; WebRTC, Matrix, WebView bridges

Embedding-based skill routing, model integration, structured app context

PostgreSQL, SQLite, REST, SSE, FFmpeg; testing and deployment

Recent experience

Independent engineering

2026-present

Develop local-first AI creative tools and native applications: Auteur, Homer Studio, Unipuni and Ghosh. MingleMeet experiments use Rust/Tokio, QUIC/HTTP3 and a shared core exposed to mobile clients through FFI. Integrate model execution into desktop workflows; verification and maturity differ by project.

CTCS / Daypop - Alhosn

November 2025-June 2026 / completed contract

Android/KMP health application work and an in-app AI assistant. Implemented vaccination-record, missing-certificate, activity and hydration workflows; selected skills using embeddings and cosine similarity, and supplied structured application context. Supported Arabic and right-to-left interfaces.

Innobiosystems

October 2024-November 2025

Built Flutter iOS/Android CGM and BLE laboratory applications with plots and CSV export. Worked on nRF52832 firmware, SAADC sampling, averaging, raw BLE windows and power behavior. Contributed to migration from nRF5 SDK/FreeRTOS to Zephyr and native iOS integrations.

Lesasoft - enterprise messenger

June-August 2025

Contributed to an NDA Android E2EE messenger: conversation interfaces, history, groups, VoIP-related work and background notifications. Integrated self-hosted notification delivery without Firebase, with Keycloak/Gotify integration.

Earlier experience

GeoTechnoSot

February 2023-October 2024

Developed mobile integrations and prototypes: TrackTag UHF/RFID, a Java-to-Flutter bridge for vendor hardware, OCR-assisted forms, Android/iOS applications and a station-master interface prototype. Delivered native and cross-platform components.

Function Inc.

2021-January 2023

Worked on the SEER/Royal Element/Matrix mobile app and wallet: native-Flutter-WebView signing, WebRTC integration and Web3 interfaces. Built React/three.js presentation sites and interactive models for GEAR and Beedex; prepared Beedex HDRI-baked lighting and implemented Telemask interfaces.

Alakris / independent application work

2020-2021

Flutter food-ordering applications, Firebase OTP and authentication UX, ordering and payment integrations, and preparation for app-store publication. Related work included delivery interfaces and migration of a legacy mobile application.

Meihua

February-April 2020

Vue administration interfaces and React Native application screens.

Gubnota / independent web development

2012-2019

Designed and implemented multilingual commerce and business sites: product imports, localization, search, content management, custom WordPress behavior and brand assets. Earlier projects include Alliancechip, PromoChina, Shanghai Partners, Guangzhou Hewu, Phu Quoc and CCTV businesses.

Education

Higher Chemical College of the Russian Academy of Sciences - Master's degree in Chemistry, 2009.

Selected projects

Case studies distinguish delivered work, prototypes and ongoing development.

Auteur / MyMovie Studio

A production workspace for generative cinema: connecting scenes, keyframes, references and ComfyUI execution in one local-first application.

Unipuni

A native Apple Silicon studio for captioned datasets, local LoRA training, image generation and masked editing.

Alhosn Health App & AI Assistant

Android/KMP health workflows and an in-app assistant with embedding-based skill selection and Arabic/RTL support.

Enterprise Android Messenger - NDA

Android E2EE messenger contributions and self-hosted background notifications without Firebase.

GEAR

A React/three.js Web3 presentation with an interactive 3D model I created.

Telemask

A Web3 Dapp and its introduction website, presented as one connected interface project.

Metro Station Master

A station-master application interface prototype for GeoTechnoSot.

Wafa - Crypto Freelance Marketplace

Freelance discovery, bids, messaging and order lifecycle interfaces, with a separate Go backend.

Palette Normalizer

A palette-normalization tool with a recorded input-to-result workflow.

dubai.dabaga.cc

A localized content and property-discovery website with an editorial CMS and map-based browsing.

Full project history, technical decisions and repositories

Homer Studio

A local-first voice and audiobook studio that brings neural narration, voice conversion and precise audio editing into a single desktop workflow.

Ghosh

An emerging native control plane for remote nodes, workspace trust, SSH identities and terminal sessions.

Innobiosystems CGM

Flutter BLE tools for continuous glucose monitoring, native mobile integrations and nRF52 firmware work.

SEER / Royal

Element/Matrix mobile messaging, a crypto wallet and a Dapp connected through native, Flutter and WebView bridges.

Beedex

A browser-based 3D presentation with personally prepared models and baked HDRI lighting.

Alakris - Ordering & Authentication

Flutter ordering applications, Firebase OTP, payment integrations and preparation for app-store releases.

GeoTechnoSot - Mobile Integrations

TrackTag RFID, vendor Java-Flutter bridges, OCR-assisted forms and native mobile applications.

Weevil VPN

A Flutter VPN application integrating Xray, with a supplied mobile walkthrough.

fenki.net

A multilingual discovery product with account workflows, structured domain data and exportable chart tools.

Philovival & Quotes

An independently developed and localized mobile quotes application.