ANDREJA ZUBAC

Senior Frontend Engineer · Mobile (Flutter, Android) & Web (Next.js, Angular)

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PROFILE

Senior frontend engineer with 7 years of experience delivering production **Flutter and native Android (Kotlin)** applications, including products used by millions of people, and building **web applications, websites and online stores** with Next.js, Angular, React and TypeScript. Most recently built a consumer mobile banking app end to end: KYC onboarding, card issuing, SEPA/SWIFT payments and passkey authentication. Hands-on experience with **physical devices over Bluetooth Low Energy** (wearables, fitness sensors, IoT cameras and weather stations), with the native BLE layer in Kotlin exposed to Flutter through platform channels. Strong in Clean Architecture, migrating legacy codebases without halting delivery, third-party SDK integration, mobile security and multi-environment releases. Works closely with backend, infrastructure, QA and product teams; also builds AI-assisted automation and internal tooling.

TECHNICAL SKILLS

Mobile	Flutter, Dart, Android SDK, Kotlin, Java, Jetpack Compose, Android Views (XML), platform channels, Flutter desktop, build flavors & variants
Web	Next.js (App Router), Angular, React, TypeScript, Tailwind CSS, Framer Motion, GSAP, Three.js / React Three Fiber, React Hook Form + Zod, SEO, i18n, accessibility (WCAG)
CMS & hosting	Sanity CMS (embedded Studio), e-commerce stores, business websites, Resend, Vercel, static export, VPS & Nginx
Device communication	Bluetooth Low Energy: scanning, connection management, reconnect logic, background operation, state recovery, sensor data parsing; wearables, fitness sensors and IoT device configuration; GPS
Fintech & payments	KYC / identity verification (Sumsub), card issuing (Wallester), SEPA / SWIFT / domestic transfers, compliance questionnaires (PEP, tax residency), POS payments (Teya SDK)
Mobile security	Passkeys / WebAuthn, Android Digital Asset Links, app signing & keystores, freeRASP / RASP integrity checks, secure storage, secrets management
Architecture	Clean Architecture (DDD), MVVM, BLoC/Cubit, Provider, repository & use-case patterns, legacy migration & refactoring, Freezed, get_it/injectable, Dagger Hilt, ADRs
Backend & APIs	REST, GraphQL, Dio, Retrofit, Firebase (FCM, Firestore, Crashlytics), WebRTC, webhooks
DevOps & CI/CD	GitLab CI, Codemagic, HashiCorp Vault, Gradle (Kotlin DSL), CocoaPods, Firebase App Distribution, multi-environment releases (Dev / Stage / UAT / Prod)
Testing	Unit & widget testing, Mockito, Mocktail, platform-channel stubbing, regression tests of state machines and failure paths, Vitest
Other	Embedded C (PIC microcontrollers), LLM integrations & automation pipelines, Python, SQL

WORK EXPERIENCE

Flutter Engineer — BrainRocket 2026

- Built Trumia, a consumer mobile banking app in Flutter, across Dev / Stage / UAT / Production environments.
- **Onboarding:** the complete post-sign-up journey: a 9-step compliance questionnaire (residency, financial profile, tax and PEP declarations), a country-gated waitlist path and resumable progress persisted to secure storage.
- **KYC:** integrated Sumsub with the backend webhook verdict as the source of truth, bounded status polling and recovery for error and still-pending states; isolated the SDK behind an interface to ship ahead of the backend, including native iOS setup.
- **Passkeys (WebAuthn):** passwordless authentication with Android signing, Digital Asset Links and per-environment configuration.
- **Cards & payments:** card management on Wallester (issuing, freeze, controls, spending limits); SEPA, SWIFT and domestic transfers; transaction history.
- **Security & release:** app signing, RASP configuration, GitLab CI/CD, HashiCorp Vault secrets; authored ADRs on security and release signing.

Flutter Developer (Part-time) — POSSector 2025 – 2026

- Developed a Flutter point-of-sale app for hospitality on mobile and desktop: payments, receipt printing, bill splitting, order management and multi-device sync.
- Led a full refactoring: analysed the inherited architecture, decomposed god classes and migrated to Clean Architecture without halting feature delivery.
- Integrated the Teya payment SDK on Android; built a Python translation automation pipeline with Slack and Google Chat webhooks.

Flutter Engineer — Orion Innovation 2025 – 2026

- Built and scaled features for Command Pro, a Flutter app with millions of active users for wildlife and property monitoring.
- Implemented BLE/IoT configuration flows for cameras, weather stations and feeders via Kotlin platform channels.
- Engineered an image/video gallery with lazy loading, custom caching and fullscreen rendering, resolving frame drops in asset-heavy feeds; maintained the Codemagic CI/CD pipeline across a multi-module project.

Flutter Engineer — Rolla 2024 – 2025

- Built the Rolla One health and fitness app from the ground up through production release, with real-time activity tracking and background processing.
- Designed the BLE layer in Kotlin, exposed to Flutter via platform channels: scanning, connection management, reconnect logic, background operation and state recovery.
- Integrated a heart-rate wristband, treadmill and bike sensors alongside GPS into one real-time activity stream; calories and workout metrics with time-series charts; multilingual support (EN, SR, RU).

Flutter / Android Engineer — Abstract 2022 – 2024

- Delivered multiple Flutter and Jetpack Compose projects end to end, from architecture design through App Store and Play Store release.
- Pošta Srbije postal services app: legacy-to-modern migration, biometric authentication, map clustering and transaction features.
- Applied Clean Architecture (DDD) across projects; set up Codemagic CI/CD and owned full release processes.

Software Developer — Dib Travel 2019 – 2022

- Developed the Angular web booking platform for a travel-tech product, then moved into native Android and Flutter.
- Contributed to a full redesign, migrating legacy Angular pages to a component-based architecture; mentored junior developers through code reviews and pair programming.

OTHER PROJECTS

Websites in Next.js: Royal (construction company; Sanity CMS with embedded Studio, Three.js, contact forms with Resend), BeautyBoom+ (hair salon), Aether Studio (portfolio and pricing) — github.com/andrejazubac.

Anti-Theft Alarm System: multi-zone embedded system (PIC18) with LCD, keypad, siren, magnetic door and PIR sensors.

Neural Network from Scratch: backpropagation and sigmoid activation without external libraries (github.com/andreja998/neural-network-java).

EDUCATION

B.Sc. Software Engineering · Computer Technician

LANGUAGES

English — professional working proficiency · Serbian — native · Russian — conversational