

David Tolulope Osunsakin

Senior Flutter Engineer · Mobile Software Engineer

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PROFESSIONAL SUMMARY

Senior mobile engineer with 5+ years of production experience and 40+ shipped apps deployed on the App Store and Google Play for media, sports, and content companies across multiple countries. Hybrid Flutter and native (iOS/Android) developer with deep ownership of the full mobile lifecycle — architecture, native module integration, state management, performance profiling, security, and CI/CD. Full-stack background spanning Node.js, Spring Boot, Firebase, and AI/ML integrations (embeddings, vector databases, LLM APIs), providing end-to-end perspective on data flow, API design, and mobile-server integration. Comfortable owning technical strategy, mentoring engineers, and shipping production features that real users depend on.

TECHNICAL SKILLS

Mobile	Flutter, Dart, Swift, Kotlin, Java, Objective-C, platform channels, FFI, native module development
State & Arch	Provider, Riverpod, Bloc, GetX, Clean Architecture, MVVM, multi-module patterns, multi-tenant design
Backend & APIs	Node.js, Express, Spring Boot, REST, GraphQL, WebSockets, Firebase (Firestore, Auth, Functions, FCM, Storage), PostgreSQL, MySQL
AI & ML	TensorFlow, embeddings-based semantic search, vector databases (Pinecone), LLM API integration, multi-model orchestration, Firebase ML Kit
Mobile Infra	Push notifications (FCM/APNs), Stripe/RevenueCat payments, in-app purchases, deep linking, secure storage (Keychain/Keystore), certificate pinning, code obfuscation, tamper detection
DevOps & CI/CD	Git, GitHub Actions, GitLab CI, Fastlane, Codemagic, Firebase App Distribution, App Store Connect, Google Play Console
Testing & Quality	Unit, widget, integration & golden tests, Sentry, Firebase Crashlytics, Firebase Performance Monitoring

PROFESSIONAL EXPERIENCE

Senior Flutter Engineer 2021 – Present

App Works · app-works.dev · Remote

- Founded a mobile engineering studio; architected and delivered 40+ production Flutter and native mobile applications for media, sports, and content companies across multiple countries.
- Designed hybrid Flutter applications with custom native modules in Swift (iOS) and Kotlin (Android) where platform-specific performance, security, or device-capability requirements demanded it.
- Owned the full mobile lifecycle for every product: architecture, native module integration, implementation, App Store / Play Store deployment, post-release monitoring, and iteration.

- Established CI/CD pipelines using GitHub Actions, Fastlane, and Codemagic for automated builds, signing, beta distribution, and store deployment — compressing release cycles from days to hours.
- Built privacy-compliant device and user data collection patterns aligned with App Store and Play Store policies: consent flows, analytics opt-in, and data minimisation.
- Implemented secure mobile experiences across the portfolio: biometric auth, Keychain/Keystore secure storage, certificate pinning, network-layer encryption, code obfuscation, and tamper detection.
- Integrated payment processing (Stripe, RevenueCat), push notifications (FCM/APNs), real-time messaging, offline-first sync, and analytics across multiple production apps.
- Profiled and optimised startup time, scroll performance, memory pressure, and network efficiency using Flutter DevTools, Xcode Instruments, and Android Profiler.
- Mentored junior engineers; defined code review standards, testing strategy (unit/widget/integration), branching model, and documentation conventions.

Junior Project Manager / QA Intern2023

Deepline.ai · Belgrade, Serbia

- Supported sprint planning and tracked delivery milestones for AI-powered product features.
- Identified, reproduced, and documented software defects in collaboration with engineering; contributed to test case design and regression coverage.
- Gained hands-on exposure to ML product workflows including embedding pipelines and LLM-backed features.

Software Developer (Freelance)2020 – Present

Upwork & Independent Clients · Remote

- Delivered AI-augmented mobile and web products for international clients — LLM chat interfaces, content automation pipelines, and AI-powered onboarding flows.
- Implemented embeddings-based semantic search and content retrieval using vector databases (Pinecone) for in-app discovery features.
- Owned end-to-end delivery: API integration, backend orchestration (Node.js / Firebase), mobile client integration, monitoring, and post-launch iteration.

IT Administrator2017 – 2020

HCBI Kuća Mira · Belgrade, Serbia

- Managed organisational data systems, hardware maintenance, and remote conferencing infrastructure.
- Administered user accounts, access controls, and network configuration for the organisation.

SELECTED PROJECTS

RCCG Serbia Connect · Multi-Tenant Flutter & Firebase AppCurrent

Lead engineer · Flutter, Dart, Firebase (Firestore, Auth, Functions, FCM), Stripe

- Architected multi-tenant data model in Firestore using branch-scoped subcollections; supports unlimited branches through a single document write with zero code changes.
- Implemented Firebase Auth with custom claims for branch-scoped RBAC; all access enforced at the database layer via security rules with no client-side trust.

- Designed BranchContext provider in Flutter that auto-scopes every Firestore query, keeping feature code branch-agnostic and reducing cross-branch data leakage risk to zero.
- Built core features: real-time schedule, prayer wall, testimonies, sermon library with offline downloads, integrated giving (payment processing), push notifications, and ministry management.

Media & Content App Portfolio · 40+ Production Apps for International Clients2020 – Present
Lead/principal engineer · Flutter, Dart, native iOS/Android, Node.js, REST APIs, FCM, CDN integrations

- Delivered 40+ Flutter and native production apps for media, sports, and content publishers across multiple country App Stores and Play Stores.
- Designed shared patterns for content delivery at scale: CDN-fronted REST APIs, cursor-based pagination, list virtualisation, lazy loading, and offline-first content caching.
- Integrated FCM topic-based push notifications enabling single-API-call fan-out for breaking-news and live-event scenarios.
- Developed white-label architecture enabling rapid new-client deployment from a shared codebase with minimal customisation overhead.

EDUCATION

M.Sc. Contemporary Information Technologies2022 – 2023

Singidunum University · Belgrade, Serbia

B.Sc. Software Engineering2017 – 2022

Singidunum University · Belgrade, Serbia

CERTIFICATIONS

- Introduction to TensorFlow for AI, ML, and Deep Learning — Coursera / DeepLearning.AI
- Linux Essentials Professional Development — Linux Professional Institute
- Introduction to Cybersecurity — Cisco Networking Academy

LANGUAGES

English Native proficiency

Serbian Basic (A2)
