

Aleksey Petrov

Expert SENIOR MOBILE APPLICATION ENGINEER

SUMMARY

Senior Mobile Application Engineer with 17+ years of experience specializing in cross-platform mobile applications and SDKs. Expert in a wide range of frameworks and languages such as Capacitor, React, Next.js, React Native, Ionic, Flutter, Swift, Objective-C, Kotlin, Java, and proficient in CI/CD practices including Fastlane and GitHub Actions. Demonstrated ability in optimizing app performance, implementing push notification engines, and deploying production apps. Strong focus on secure, scalable API integration and backends, with a history of reducing project timelines through reusable components. Committed to agile methodologies and collaborative team environments, this engineer reflects a superior blend of technical prowess, industry insight, and hands-on experience across fintech, automotive, and healthcare sectors.

TECHNICAL SKILLS

Main Technical Skills	LCDP (5 yr.), Play Framework (5 yr.), Swift (5 yr.), Objective-C (5 yr.), Kotlin
Programming Languages	Kotlin, Objective-C (5 yr.), Swift (5 yr.)
Mobile Frameworks and Libraries	Crashlytics
Android Libraries and Tools	Kotlin
Java Frameworks	Play Framework (5 yr.)
Scala Frameworks	Play Framework (5 yr.)
Cloud Platforms, Services & Computing	Firebase Cloud Messaging, Vercel
Amazon Web Services	AWS Lambda, AWS SAM
Azure Cloud Services	Azure Cloud Functions
QA, Test Automation, Security	Espresso, Playwright, XCTest
Platforms	Fastlane, LCDP (5 yr.)
Version Control	Git, Github Actions
SDK / API and Integrations	GraphQL, RESTful API
Deployment, CI/CD & Administration	Jenkins
UI/UX/Wireframing	Prototyping

Logging and Monitoring	Sentry
Other Technical Skills	APN, Courier, fcm

WORK EXPERIENCE

Senior Mobile Engineer, Fintech and Automotive Clients

Duration: Feb 2023 – Present

Summary:

- Designed and shipped Capacitor + React/Next
- js apps for fintech and automotive clients with native integrations

Responsibilities: State management, building push notification engine, secure API and event batching strategy design, CI/CD pipelines deployment, app performance profiling and optimization.

Technologies: Capacitor, React, Next.js, Redux, Context, APNS, FCM, Courier, Node.js, Go, Ruby, Fastlane, GitHub Actions, Instruments, Android Profiler

Senior Mobile Application Engineer, Cross-Platform SDKs

Duration: Apr 2021 – Jan 2023

Summary: Built Capacitor plugins, React Native modules, Ionic wrappers, and Flutter plugins for cross-platform SDKs.

Responsibilities: Improving authentication flows, authoring onboarding documentation, SDK design collaboration, releasing SDK updates with automated CI/CD, and hardening SDKs for compliance.

Technologies: Capacitor, React Native, Ionic, Flutter, CI/CD

Senior Mac/iOS Developer, Healthcare Applications

Duration: Sep 2013 – Apr 2021

Summary: Developed iOS SDKs for healthcare apps with a focus on security and compliance.

Responsibilities: Developing iOS SDKs with secure messaging and offline sync, creating reusable components, implementing secure API clients, building CI/CD pipelines, aligning with compliance audits, mentoring, and monitoring app health.

Technologies: iOS SDK, HIPAA-compliant backends, TestFlight, App Store, Crashlytics, Sentry

Mac/iOS Developer, Enterprise Client Projects

Duration: Jul 2008 – Aug 2013

Summary: Delivered macOS and iOS apps focusing on finance, reporting, and productivity for enterprise clients.

Responsibilities: Building SDK libraries, integrating RESTful APIs, managing App Store releases, conducting app performance profiling, and collaborating on multilingual delivery.

Technologies: macOS, iOS, RESTful APIs, App Store



EDUCATION

- **BSc, Computer Software Engineering**
- Sofia University "St. Kliment Ohridski" – Sofia, Bulgaria
- Oct 2004 – Jun 2008

