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
Mail / Network Protocols / Data transfer	Courier
QA, Test Automation, Security	Espresso, Playwright, XCTest
Platforms	Fastlane, LCDP (5 yr.)
Version Control	Git, Github Actions
SDK / API and Integrations	GraphQL, RESTful API
	Jenkins

Deployment, CI/CD & Administration	
UI/UX/Wireframing	Prototyping
Logging and Monitoring	Sentry
Other Technical Skills	APN, fcm

WORK EXPERIENCE

Senior Mobile Engineer, Fintech and Automotive Clients

Duration: Feb 2023 – Present

Summary:

- Designed and shipped Capactor + 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