

# Aleksey Petrov

## Expert SENIOR MOBILE APP ENGINEER

### SUMMARY

- Senior Mobile Engineer with 17+ years of experience, focusing on cross-platform mobile application development and SDKs. - Expertise in various mobile frameworks (Capacitor, React, React Native, Ionic, Flutter) and native (Swift, Objective-C, Kotlin, Java). - Proficient in CI/CD practices (Fastlane, GitHub Actions, Jenkins), automated deployments, push & messaging tech (APNS, FCM, Courier). - Strong background in backend and API development, including REST, GraphQL, serverless architectures, along with performance optimization. - Demonstrated ability in fostering agile methodologies and working with multi-timezone teams to drive project success. - Holds a BSc in Computer Software Engineering from Sofia University, reflecting a strong technical foundation.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Play Framework (5 yr.), NativeJS (15 yr.), Firebase Cloud Messaging, CI/CD
<b>Programming Languages</b>	Go, Java, Kotlin, Objective-C (15 yr.), Ruby, Swift (15 yr.)
<b>Mobile Frameworks and Libraries</b>	Capacitor (2 yr.), Crashlytics, Ionic (5 yr.)
<b>JavaScript Frameworks</b>	Ext JS, Node.js, React
<b>Android Libraries and Tools</b>	Kotlin
<b>JavaScript Libraries and Tools</b>	NativeJS (15 yr.), React Native (5 yr.)
<b>Java Frameworks</b>	Play Framework (5 yr.)
<b>Scala Frameworks</b>	Play Framework (5 yr.)
<b>Cloud Platforms, Services &amp; Computing</b>	Firebase Cloud Messaging, Vercel
<b>Amazon Web Services</b>	AWS Lambda
<b>Google Cloud Platform</b>	Cloud Functions
<b>Deployment, CI/CD &amp; Administration</b>	CI/CD, Jenkins
<b>SDK / API and Integrations</b>	Context API (2 yr.), Facebook Auth (2 yr.), GraphQL
<b>QA, Test Automation, Security</b>	Espresso, Playwright, XCTest
<b>Platforms</b>	Fastlane

<b>Version Control</b>	Github Actions
<b>Soft Skills</b>	Mentor Aptitude
<b>Methodologies, Paradigms and Patterns</b>	REST
<b>Logging and Monitoring</b>	Sentry
<b>Other Technical Skills</b>	APN, Courier, fcm

## WORK EXPERIENCE

### Senior Mobile Engineer, Capacitor & React/Next.js Applications

**Duration:** Feb 2023 – Present

**Summary:**

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

**Responsibilities:** Designed Capacitor + React/Next.js apps, implemented state management, built push notification engine, collaborated on API design and event batching strategies, deployed production apps via CI/CD pipelines, and profiled and optimized app performance.

**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 SDK Development

**Duration:** Apr 2021 – Jan 2023

**Summary:** Delivered Capacitor plugins, React Native modules, Ionic wrappers, and Flutter plugins, integrating web apps with native functionality and enhancing Zapier workflows.

**Responsibilities:** Built Capacitor plugins, React Native modules and Ionic wrappers, delivered Flutter plugins, improved authentication and token refresh flows, authored onboarding documentation, collaborated with multi-timezone teams, released SDK updates via automated CI/CD pipelines, hardened SDKs with encryption and compliance standards.

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

### Senior Mac/iOS Developer, Healthcare iOS SDKs

**Duration:** Sep 2013 – Apr 2021

**Summary:** Developed iOS SDKs for healthcare applications with critical features like secure messaging and data caching, optimizing for HIPAA-compliant backend integration.

**Responsibilities:** Developed iOS SDKs, designed reusable authentication and media playback SDK components, implemented secure API client SDKs, built CI/CD pipelines, collaborated with US product managers, mentored junior iOS engineers, monitored app health with Crashlytics and Sentry.

**Technologies:** iOS, SDK development, HIPAA-compliance, TestFlight, App Store deployments, Crashlytics, Sentry



## **Mac/iOS Developer, macOS & iOS Apps for Enterprise**

**Duration:** Jul 2008 – Aug 2013

**Summary:** Developed a range of macOS and iOS apps focusing on finance, reporting, and productivity, providing diverse solutions like offline sync and data visualization.

**Responsibilities:** Delivered macOS and iOS apps, built reusable SDK libraries, integrated RESTful APIs, managed App Store and Mac App Store releases, conducted performance profiling and optimization, and wrote developer guides and client training documentation.

**Technologies:** macOS, iOS, SDK libraries, RESTful APIs, App Store, Mac App Store

## **EDUCATION**

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

