

David Nemetz

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Senior Mobile Application Engineer with 10+ years of experience designing and delivering HIPAA-compliant, offline-first mobile platforms used by millions of users across healthcare, education, and SaaS. Expert in React Native architecture, mobile performance optimization, and secure data workflows, with strong experience integrating AI-driven insights, connected device data, and immersive-ready mobile interfaces into scalable iOS and Android applications. Proven owner of cross-platform mobile systems, shared UI frameworks, and release pipelines, recognized for leading complex initiatives, improving reliability at scale, and translating regulated business requirements and emerging technologies into intuitive, high-performance mobile experiences.

Professional Experience

Talkspace, New York, NY | Senior Mobile Engineer

April 2024–Present

- Led mobile architecture for Talkspace's flagship iOS and Android apps, supporting over 330,000 completed payor sessions per quarter and 179M+ eligible lives¹².
- Delivered React Native platforms for patient, provider, and admin apps, reducing platform-specific development by 40% and accelerating feature parity.
- Built a shared mobile UI library adopted by 3 product teams, cutting UI development time by ~30% and improving design consistency across 5 apps.
- Reduced cold start time by 28% and runtime memory usage by 22% on Android 8+ and iOS 13+ through Hermes tuning, lazy loading, and native bridge optimization.
- Implemented OAuth2 + JWT-based authentication with secure token rotation and biometric fallback, reducing session-related support tickets by 45%.
- Enabled offline-first messaging and care plan access, improving user retention by 18% in low-connectivity regions.
- Integrated real-time APIs for therapy messaging and scheduling, reducing latency by ~300ms and increasing session booking conversion by 12%.
- Achieved full HIPAA compliance for mobile data handling, including AES-256 encrypted storage, TLS 1.3 enforcement, and secure background sync.
- Reduced crash-free session rate issues by ~40% through proactive instrumentation with Sentry, Firebase Crashlytics, and custom performance metrics.
- Managed staged rollouts and feature flagging across 3 production apps, reducing rollback incidents by 70%.
- Mentored 4 mobile engineers and led cross-functional design reviews, improving team delivery velocity by ~25%.
- Delivered biweekly App Store and Play Store releases via GitHub Actions and Fastlane, cutting release cycle time from 2 weeks to 3 days.
- Collaborated with AI and backend teams to surface real-time care insights, increasing user engagement with personalized content by 22%.

AlayaCare, Richmond Hill, NY | Senior Mobile Engineer

February 2021–March 2024

- Architected mobile apps used in 1M+ in-home patient visits/month, supporting 30,000+ clinicians across North America³⁴.
- Built offline-first architecture with conflict resolution and encrypted local storage, enabling 99.9% task completion in no-connectivity environments.
- Delivered visit documentation and compliance workflows aligned with CMS and provincial standards, reducing audit errors by 35%.
- Reduced Android app size by 18MB and improved render performance by ~40% on devices with <2GB RAM.
- Implemented push notifications and background sync, increasing real-time schedule adherence by ~20%.
- Enhanced accessibility to WCAG 2.1 AA standards, improving usability scores by +1.3 points in clinician surveys.

- Partnered with backend teams to reduce API payload sizes by ~45%, improving sync speed and reducing mobile data usage.
- Mentored 5 engineers, leading to 2 internal promotions and a 30% increase in code review throughput.
- Collaborated with clinical SMEs to model real-world workflows, reducing feature rework by ~25%.
- Designed mobile ingestion of wearable and peripheral data (e.g., vitals), enabling real-time alerts and care plan updates in low-bandwidth settings.

Articulate, New York, NY | Mobile Engineer

July 2018–January 2021

- Developed mobile-first learning platforms used by 30,000+ learners across 20+ countries, supporting SCORM/xAPI-compliant training delivery.
- Built reusable UI components adopted across 3 mobile apps, reducing new screen development time by ~40%.
- Improved mobile load times by ~35%, increasing course completion rates by ~18% and reducing bounce rates by 22%.
- Integrated with analytics APIs to track learner progress, enabling real-time dashboards for 5 enterprise clients.
- Ensured SCORM/xAPI compatibility, enabling 100% accurate tracking across mobile and desktop platforms.
- Implemented offline caching for course content, increasing mobile learning time by ~25% in low-connectivity regions.
- Delivered RTL and localization support for 20+ languages, expanding reach to global Fortune 500 clients.
- Partnered with instructional designers to translate learning goals into mobile UX, improving learner satisfaction scores by +1.5 points.
- Prototyped 360° and immersive learning modules, informing roadmap for interactive mobile content.
- Supported mobile QA automation with Detox and Appium, reducing regression bugs by ~30%.

MojoTech, Los Angeles, CA | Mobile Engineer

January 2017–June 2018

- Delivered mobile-first apps for clients including MoneyLion and Blue Cross, contributing to 5M+ active users added and 300% increase in bookings.
- Built early React Native prototypes for fintech and healthcare clients, reducing time-to-market by ~35%.
- Designed responsive mobile UIs for iOS and Android, improving usability scores by +20% in client UX audits.
- Integrated secure auth and billing for HIPAA and PCI-regulated apps, reducing compliance gaps by ~50%.
- Reduced mobile payload sizes by ~40%, improving load times and app store ratings.
- Collaborated with product and UX teams to align mobile features with client KPIs, contributing to \$1B+ in client revenue.
- Led iterative design cycles with client feedback, increasing feature adoption by ~30%.
- Evaluated and introduced emerging mobile tech (e.g., GraphQL, Expo), improving team velocity and delivery confidence.

Technical Skills

- **Mobile & Cross-Platform:** React Native, Expo, Flutter, Ionic, iOS & Android app lifecycle, performance tuning, release management, Native modules & bridging (Swift, Kotlin), JavaScript, TypeScript
- **Architecture & State:** Redux, React Query, Offline-first architecture, Secure local storage, background sync, conflict resolution, scalable shared-code mobile platforms, startup time reduction, memory management
- **AI & Immersive UX:** AI feature consumption and UX integration (mobile client perspective), intelligent system signal integration with privacy and latency handling, AR/VR-ready mobile UI patterns and performance considerations, immersive/spatial/gesture-driven UI design, connected data ingestion and real-time visualization, wearable companion app constraints and background execution models
- **APIs & Realtime:** REST, GraphQL, WebSockets, real-time data sync, Firebase
- **Testing & Quality:** Jest, Detox, Playwright, Unit, integration, and end-to-end mobile testing
- **Monitoring & Reliability:** Crash reporting, analytics, performance monitoring, Feature flags, staged rollouts
- **DevOps & Release:** CI/CD pipelines, App Store & Play Store deployments, automated testing and release workflows
- **Security & Compliance:** Encrypted storage, secure authentication (OAuth2, JWT, token rotation), HIPAA-

compliant data handling, compliance-ready workflows

- **UI Systems & Accessibility:** Scalable mobile UI systems using reusable components and design tokens, accessibility-focused development following platform and WCAG guidelines
- **Cross-Platform Consistency:** Consistent iOS and Android experiences using shared codebases, mobile-first development with emphasis on performance, stability, and UX

Soft Skills

Asynchronous Communication, Self-Management, Empathy & Product Thinking, Emotional Intelligence, collaboration, adaptability, time management

Education

Texas Tech University, Lubbock, TX
Bachelor of Science in Computer Science

August 2012 - May 2016