Andrew Mark Mccloskey

Senior Mobile Engineer | React Native | Flutter | WebGL | Game Developer

Brownwood, TX 76801 | andrew.mark0613@gmail.com | +1 (254) 273-9994

SUMMARY

Mobile Engineer with 6+ years of experience building high-performance iOS and Android applications using React Native and Flutter. Skilled in the full mobile development lifecycle—from design to deployment—delivering scalable, user-centric apps. Strong background in WebGL, Phaser.js, Three.js, and Shaders, with additional expertise in interactive games and 3D/visual rendering. Proven track record of improving app performance, enhancing user engagement, and collaborating in fast-paced agile environments.

EDUCATION

Bachelor of Science in Computer Science University of North Texas | 2017 - 2021

EXPERIENCE

Mobile Engineer | 07/2024 - Present

Variant Labs

- Developed AI Game Generator mobile app in Flutter, enabling users to create their own games from text prompts with dynamically generated levels, mechanics, and assets. Web Site
- Developed **face upload & personalization features**, allowing users to embed their own likeness or avatars into generated games.
- Implemented **social networking functionality** users can post games, share to groups, comment, and collaborate within the platform.
- Enabled **re-generation and remixing**: users can update prompts to **evolve or remix their games** with AI, promoting creativity and community engagement.
- Designed and implemented scalable cloud storage and media pipelines to support game uploads, sharing, and persistent user content.
- Applied advanced **Flutter performance optimization** (Skia engine, isolates, async rendering), ensuring smooth **60fps gameplay experiences**.
- Architected state management (using Riverpod/Bloc or similar) to handle dynamic game data, caching, and Al
 results across sessions.
- Integrated real-time notifications and activity feeds for group interactions and collaborative remixing.
- Collaborated with designers on **Figma prototypes**, translating UI/UX into reusable Flutter widgets with responsive layouts for iOS & Android.
- Conducted **multi-device testing** across Android/iOS hardware to ensure consistent gameplay, rendering, and Al output quality.

Mobile Developer | 07/2024 - Present TopHap

- Developed the TopHap Explorer mobile application from scratch, providing users with real-time access to
 property data, neighborhood insights, and market conditions using React Native, with native modules for both
 iOS and Android. App Store
- Integrated Augmented Reality (AR) for property identification, enabling users to point their phones at a
 property and instantly view its value, permit history, and market data using ARKit (iOS) and ARCore (Android)
 along with native modules in React Native.
- Implemented GPS- based property search functionality that allowed users to discover properties nearby by leveraging react- native-maps and Google Maps API, enabling efficient navigation with real-time location data, managed via Redux- Thunk.
- Developed real- time data synchronization using WebSockets and AWS for fetching property data, neighborhood insights, and market trends, ensuring users receive the latest information without needing to refresh the app.
- Built a Comparative Market Analysis (CMA) feature, enabling users to compare properties based on pricing, location, and features, using **React Query** to fetch and cache real estate data from the cloud efficiently.

- Integrated neighborhood analysis features, displaying information such as walkability scores, crime rates, and environmental risks for specific areas, sourced from external APIs and managed in the app through React Query and AWS.
- Handled complex state management with Redux and Redux-Thunk, managing asynchronous data fetching and synchronization of app states like user profiles, property data, and live updates on property listings and market trends.
- Implemented persistent storage using AsyncStorage to save user preferences, favorite properties, and past searches across app sessions, providing a personalized experience for each user on both iOS and Android
- Conducted rigorous testing with Jest and React Native Testing Library, ensuring that core features like AR property identification, real-time data updates, and GPS services were functioning properly across devices and operating systems.

Junior Web Developer | 07/2024 - Present **BitsWits**

- Contributed to development of cross-platform apps and web projects using JavaScript, React, and WebGL.
- Built interactive UI components and visual rendering pipelines, introducing gamification features in client
- Collaborated with senior engineers to deliver responsive, high-performance applications on both mobile and
- Assisted in API integrations with REST and GraphQL backends for real-time content delivery.
- Implemented unit tests for web components, ensuring better code quality and fewer regressions.
- Participated in code reviews & agile sprints, gaining hands-on experience in scalable project delivery.
- Contributed to prototype game mechanics in Phaser.js, building a foundation for later mobile game development expertise.
- Designed and implemented responsive layouts across devices, ensuring accessibility and usability standards.
- Assisted with client demos & stakeholder presentations, demonstrating progress and iterating on feature requests.
- Learned and applied modern dev practices (Git, Jira, CI/CD basics), preparing for senior engineering roles.

SKILL

Mobile App Development

- React Native
- Flutter
- Swift
- · Kotlin, Java

Game Development & Graphics

- Phaser.js
- Three.js
- WebGL & Shaders

State Management

- Redux Toolkit
- React Query
- Zustand
- Redis

Frontend Development

- JavaScript
- React
- TypeScript
- Next.js

Backend Development

- Node.is
- Express.js
- Firebase
- WebSockets
- GraphQL

Database Systems

- MySQL, SQLite, PostgreSQL
- MongoDB
- AWS DynamoDB
- Firebase Firestore

Authentication & Security

- Firebase Authentication
- JWT
- OAuth
- Biometric Authentication

Performance Optimization

- Flipper
- React Native Debugger
- Sentry
- Fabric Renderer
- TurboModules
- Skia Rendering Engine

Cloud Services & Deployment

• AWS Amplify (CI/CD, API

Hosting, Auth)

- AWS S3, EC2, Lambda
- Firebase (Hosting, Firestore,

Auth, Push Notifications)

Bitrise (CI/CD Automation for

Mobile)

 Fastlane (Automated) iOS/Android Deployment Pipelines)

Testing & Quality Assurance:

- Jest (Unit Testing & Test Suites)
- React Native Testing Library
- Enzyme
- Test-Driven Development (TDD)

Version Control & Collaboration:

- Git
- GitHub
- Bitbucket
- Jira

Development Tools & Platforms:

- Xcode
- Android Studio
- Figma
- Sentry

AI & Machine Learning

- Hugging Face Hub
- Diffusion Models
- Al Integration in Mobile
- Retrieval-Augmented Generation
- Prompt Engineering
- · Al Content Remixing