

ARUP BISWAS

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SUMMARY

Product-driven Lead Mobile & Full-Stack Engineer with expertise in React Native, Next.js, and TypeScript. Proven track record of architecting, building, and deploying production-grade mobile and web applications. Specialized in offline-first systems, secure authentication, and CI/CD workflows for global releases.

EXPERIENCE

Lead Mobile Application Developer / Full-Stack Engineer

Thatha Business Development LLP (Quokka for Good LLC, USA)

July 2025 – Present, Remote

- Sole lead developer owning architecture, development, and production releases for Inbo mobile and web platforms.
- Architected and scaled a React Native codebase of 100K+ lines using Redux Toolkit and React Query, improving state management and server caching efficiency.
- Led the migration from Expo CLI to React Native CLI (New Architecture), enabling improved performance and greater native module control.
- Designed an offline-first architecture with background sync workers and intelligent caching, ensuring seamless user experience in low-connectivity environments.
- Developed Inbo Web 2.0 using Next.js 15 and React 19, implementing OTP-based JWT authentication and resolving token refresh race conditions.
- Orchestrated full App Store and Play Store release cycles, integrating Firebase Analytics and Mixpanel for GDPR-compliant user tracking.
- Optimized application performance through code splitting, FlashList virtualization, and Hermes engine integration, significantly reducing load times.

Software Engineer Intern (React Native)

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3 Months, Remote

- Developed core authentication flows and UI screens for a team-based mobile application, ensuring high-quality frontend performance.
- Streamlined CI/CD pipelines and testing procedures, accelerating the path to production readiness and improving deployment stability.
- Collaborated in an Agile environment using Git-based workflows to manage feature development and bug resolution.

PROJECT

Inbo Platform (Web & Mobile)

Web: <https://inbo-web.netlify.app> |

iOS: <https://apps.apple.com/in/app/inbo-club/id6747464212>

Android: <https://play.google.com/store/apps/details?id=club.inbo.newsletter>

- Built a multi-platform newsletter and content-reading platform featuring offline access and synchronized user data across web, iOS, and Android.

Disease Recognition Mobile Application

- Developed a Flutter application utilizing Machine Learning for agricultural disease detection, achieving 96% accuracy for crop diseases.
- Integrated a Flask backend to provide ML-driven insights for both livestock and crop health management.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science & Engineering

Siliguri Institute of Technology • 2021 – 2025

SKILLS

Redux Toolkit, React Query, REST APIs, Offline-first systems, Axios

React Native, Expo, Next.js, React, TypeScript, JavaScript, Tailwind CSS

Node.js, Django REST API integration, Firebase, Azure

Jest, Unit & Integration Testing, Performance Optimization, Mixpanel

OAuth 2.0, Email OTP, JWT, Secure Storage, HTML Sanitization

Git, VS Code, Android Studio, Xcode, Postman, Firebase Cloud Messaging (FCM)

EAS Build, Netlify, Docker, GitHub CI/CD, App Store/Play Store Connect