

MUHAMMAD ABDULLAH

Lead Software Engineer | React Native, React & TypeScript

Karachi, Pakistan | Open to Remote, Relocation (GCC, UK, EU) and Hybrid Roles

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PROFESSIONAL SUMMARY

Lead Software Engineer with 8 years of experience designing, building and shipping cross-platform mobile and web applications, currently leading a squad of 5 React Native engineers at VentureDive. My delivery record spans fintech and digital banking, insurtech, ride-hailing and mobility, B2B commerce, government analytics, healthcare, beauty and e-commerce, for clients in Saudi Arabia, Qatar, the United States, Canada, the United Kingdom and Pakistan.

I work primarily in TypeScript and React Native, with strong React and Next.js experience and native work in Swift, SwiftUI and Kotlin. I have owned architecture for design systems, real-time geolocation products and regulated banking applications, and I care about clean, testable, maintainable code and about the release pipeline that carries it to production.

I am an AI-first engineer. I use Claude Code and Cursor daily in production repositories, I led their adoption across my mobile team by authoring repo-level AI conventions and code-review guardrails, and I have shipped production LLM features including an in-app AI assistant and AI-driven recommendation and content classification. I hold an MS in Computer Science from NED University of Engineering and Technology.

TECHNICAL SKILLS

Mobile & Cross-Platform: React Native (New Architecture: Fabric, TurboModules, Codegen), Expo and EAS Build, Hermes, React Navigation, Reanimated, Gesture Handler, FlashList, native modules, Swift 5, SwiftUI, UIKit, Kotlin, background and foreground geolocation, push notifications (FCM, APNs), deep linking, in-app purchases (StoreKit, Play Billing), biometric authentication

Languages & Web: TypeScript (strict mode), JavaScript (ES2023+), Swift, Kotlin, Python, SQL, React 18/19, Next.js (App Router, SSR, ISR), HTML5, CSS3, Tailwind CSS, Storybook, design systems and component libraries, accessibility (WCAG 2.2, ARIA), Core Web Vitals

AI & LLM Engineering: Claude Code, Cursor, GitHub Copilot, agentic coding workflows, prompt engineering, repo-level AI conventions (CLAUDE.md and rules files), AI-assisted code review and test scaffolding; OpenAI API, Anthropic API, in-app AI assistants and conversational UI, LLM-driven recommendations and content classification, streaming responses, structured JSON output, function and tool calling

Frontend & Design Systems: React 18/19, Next.js (App Router, SSR, SSG, ISR), TypeScript (strict mode), JavaScript (ES2023+), HTML5, CSS3, Tailwind CSS, CSS Modules, styled-components, responsive and mobile-first design, Vite, Webpack, Turborepo and monorepos; Storybook, component library architecture, design tokens, theming and dark mode, Figma to code workflows, atomic design, visual regression testing, WCAG 2.2, ARIA, keyboard navigation, focus management, screen reader support, semantic HTML

State, Data & Integrations: Redux Toolkit, RTK Query, Redux Saga, Redux Thunk, Zustand, TanStack Query, REST APIs, GraphQL, Apollo Client, Axios, WebSockets, MMKV, AsyncStorage, Firebase, Node.js, Nest.js, OAuth 2.0 and OIDC, Stripe and regional payment gateways, Google Maps, Mapbox

Testing, DevOps & Release: Jest, React Native Testing Library, Detox, Maestro, Playwright, TDD, unit and integration testing, ESLint, Prettier, SonarQube, CI/CD pipelines, GitHub Actions, Bitbucket Pipelines, GitLab CI, Jenkins, Fastlane, App Center, EAS Submit, CodePush and OTA updates, App Store Connect, Google Play Console, Sentry, Firebase Crashlytics, AWS, Azure, Google Cloud

Leadership & Practices: Technical leadership, mentoring and onboarding, architecture and design reviews, code review culture, Agile, Scrum, Kanban, sprint planning, estimation, stakeholder communication, cross-functional collaboration, technical interviewing

PROFESSIONAL EXPERIENCE

Lead Software Engineer - React Native

Sep 2023 - Present

VentureDive - Karachi, Pakistan

- Lead a squad of 5 React Native engineers across four concurrent enterprise client products, owning mobile architecture, code review standards, sprint delivery and technical mentoring.
- Architected Driver App, a professional chauffeur application managing the full trip lifecycle, engineering robust background and foreground geolocation, live navigation, real-time assignment alerts and continuous sync with dispatch operations for accurate time and geospatial billing records.
- Built the Ethr React Native SDK and design system: 77+ accessible components and 5,600+ configurable variants documented in Storybook with a companion preview app, bridging Figma prototypes to production code and cutting new-screen build time for consuming teams by roughly 40%.

- Shipped wallet integration, virtual and physical card management and a request-approval engine for AlinmaPay, a digital banking application for Alinma Bank (Saudi Arabia) on iOS and Android.
- Delivered Falcon, an OAuth 2.0 and OIDC secured executive analytics dashboard for Qatar's Supreme Council for Economic Affairs and Investment, with interactive charting and role-based access control.
- Introduced Claude Code and Cursor across the mobile team, authored repo-level AI conventions (CLAUDE.md and rules files) and AI code-review guardrails, reducing average feature cycle time by roughly 35% and pull-request review turnaround from days to hours.
- Shipped production LLM features including an in-app AI assistant and AI-driven recommendation and content classification, handling streaming responses, structured JSON output and graceful fallback on model errors.
- Reduced reported production defects by 45% by raising automated coverage with Jest and React Native Testing Library and tightening the QA handoff process.
- Migrated release engineering to Bitbucket Pipelines and App Center with Fastlane-driven signing and submission, reducing deployment time by 30%.

Senior Software Engineer - React Native

Dec 2022 - Sep 2023

Takaful Bazaar - Karachi, Pakistan

- Led mobile development of Pakistan's first digital Takaful (insurtech) platform, taking both the customer and dealer React Native applications from zero to App Store and Google Play launch and improving time-to-market by 40%.
- Built the Travel Takaful module end to end, covering the quote engine, underwriting rules and checkout, and integrated payment gateways, Google Maps, push notifications, deep links and social login.
- Cut application crash rate by 50% through Hermes profiling, render-cycle optimisation and normalised Redux Toolkit state.
- Delivered the dealer application enabling nationwide agents to track targets, commissions and policy pipeline from a single dashboard.
- Partnered with UI/UX on an onboarding redesign that increased user retention by 20%, and enforced a modular feature-sliced architecture to keep the codebase scalable.

Software Engineer - React Native & Swift

May 2021 - Dec 2022

Cubix - Karachi, Pakistan

- Delivered 15+ production iOS and Android applications for US, Canadian and UK clients across e-commerce, health, events, beauty and pet-care domains, owning full release cycles on App Store Connect and Google Play Console.
- Built Party Shark, an event discovery and hosting application with map-based search, a custom discovery algorithm, RSVP and friend syncing, reaching 10,000+ downloads in its first quarter.
- Shipped Pauseitive, a coaching and organisational goal-management platform with subscription tiers via StoreKit and Google Play Billing in-app purchases, contributing to a 30% increase in user retention.
- Developed native screens and modules in Swift 5, SwiftUI and UIKit alongside the React Native codebase, and bridged third-party native SDKs.
- Improved application performance by 30% through render-cycle optimisation, list virtualisation and lazy loading, and standardised data access on Redux Toolkit and RTK Query.

Associate Software Engineer - React Native

Apr 2020 - May 2021

Panacloud Technologies - Karachi, Pakistan

- Built Bizad, a cross-platform ride-booking and food-ordering application in React Native, with live order tracking, maps integration and payment flows for iOS and Android.
- Delivered 10+ feature rollouts across the full software development lifecycle, from planning and estimation through development, testing and store deployment.
- Reduced reported defects by 35% by introducing unit tests and a structured QA handoff process.

Software Engineer - React.js (Internship to Full-Time)

Dec 2018 - Apr 2020

Gul Ahmed Textile Mills Limited - Karachi, Pakistan

- Built internal React.js dashboards for merchandising and production teams at Pakistan's largest textile exporter, improving page load time by 25% through component memoisation and request batching.
- Contributed frontend features to Ideas, Gul Ahmed's consumer e-commerce platform, and handled cross-browser testing and defect resolution.

PROJECT PORTFOLIO

Selected products delivered across the roles above. Live applications are listed on the App Store and Google Play; the full portfolio is at mabdullah.tech.

VentureDive (Sep 2023 - Present)

Driver App - iOS, Android - Ride-Hailing / Executive Chauffeur

A professional chauffeur application covering the full trip lifecycle: real-time assignment management, instant alerts and an interactive dashboard for claiming open rides. Integrated location services provide live navigation, status tracking and continuous synchronisation with Live Operations, while accurate time and geospatial capture from assignment to completion streamlines billing and produces transparent trip documentation.

- Led delivery for a squad of React Native engineers while remaining hands-on across architecture and core feature work.
- Engineered robust background and foreground geolocation, the hardest constraint in the product, keeping trip records accurate across app states and OS-level throttling.
- Designed a clean, feature-sliced architecture that keeps the driver app continuously in sync with dispatch operations in real time.

Tools and Technology: TypeScript, React Native, Redux Toolkit, RTK Query, background geolocation, push notifications, maps and navigation SDKs, Jest, Claude Code

Ethr React Native SDK and Design System - iOS, Android, Storybook - Developer Tooling / Design System

A React Native SDK and UI library built to give product teams a shared, brand-consistent foundation. It ships 77+ accessible components, 5,600+ configurable variants and ready-made screen templates, with a companion preview application that lets designers and engineers explore and test UI elements in action, closing the gap between Figma prototypes and production code.

- Owned the component API design, accessibility behaviour and theming model across the full library.
- Documented every component and variant in Storybook, giving consuming teams a single source of truth.
- Cut new-screen build time for consuming product teams by roughly 40% and eliminated repeated design-to-code drift.

Tools and Technology: TypeScript, React Native, Storybook, design tokens, theming, accessibility (WCAG 2.2, ARIA), Redux Toolkit, RTK Query, Jest, Claude Code

AlinmaPay - iOS, Android - Fintech / Digital Banking (Alinma Bank, Saudi Arabia)

A digital banking application enabling customers to manage accounts, finance applications and transactions end to end. Core capabilities include wallet integration, physical and virtual card issuance and control, and both local and international transfers, delivered consistently across iOS and Android.

- Built the wallet integration and a robust request-approval management system used across the banking flows.
- Applied banking-grade security practices including secure storage, certificate handling and biometric authentication.
- Maintained accessibility and localisation standards required for a regulated Saudi consumer banking product.

Tools and Technology: TypeScript, React Native, Redux Toolkit, RTK Query, Storybook, third-party payment SDKs, push notifications, biometric authentication, Jest

Falcon - Dashboard - Government / Executive Analytics (Supreme Council for Economic Affairs and Investment, Qatar)

An executive analytics dashboard built for Qatar's Supreme Council for Economic Affairs and Investment, the institution overseeing the State's economic development, investment strategy and reserve funds. Falcon gives leadership a consolidated view of Council decisions, initiatives and portfolio performance.

- Implemented OAuth 2.0 and OIDC authentication with role-based access control for a highly sensitive user base.
- Built the interactive charting and data visualisation layer, including accessible chart components.
- Hardened the application against data exposure with strict session handling and least-privilege data fetching.

Tools and Technology: TypeScript, React, Redux Toolkit, RTK Query, OAuth 2.0 and OIDC, charting and data visualisation libraries, Storybook, Jest

Imperial Dade B2B Marketplace - iOS, Android - B2B Commerce / Distribution

A digital ordering platform for foodservice packaging, industrial supplies and janitorial equipment, serving healthcare, hospitality and government segments. The application gives buyers access to a large catalogue plus consultative sustainability and safety programmes, backed by a distribution network for reliable fulfilment.

- Built catalogue navigation, search and reordering flows tuned for high-frequency B2B purchasing.
- Integrated maps, payment platforms and social login, and hardened handling of sensitive account data.
- Improved list and cart performance for large catalogues through virtualisation and query normalisation.

Tools and Technology: JavaScript, TypeScript, React Native, Redux Toolkit, RTK Query, Node.js, AWS, maps and payment SDKs, Jest

PetsFirst - iOS, Android - Healthcare / Veterinary Services

A pet-care platform for booking in-clinic and at-home veterinary appointments and grooming services with preferred clinics and vets.

- Owned full lifecycle delivery, from feature definition with cross-functional teams through release.
- Diagnosed and removed performance bottlenecks so the experience felt native on both platforms.
- Integrated maps, push notifications, in-app purchases and deep linking against third-party data sources.

Tools and Technology: JavaScript, TypeScript, React Native, Redux Toolkit, RTK Query, Node.js, AWS, maps, payments, Jest

Takaful Bazaar (Dec 2022 - Sep 2023)

Takaful Bazaar - Customer Application and Web Platform - iOS, Android, Web - Insurtech / Fintech

Pakistan's first digital Takaful solution and a one-stop marketplace for auto, health, travel and life Takaful products. Customers compare and purchase plans at transparent prices, with 24/7 customer service, claims support, add-on covers and tailored policy recommendations.

- Took the customer application from zero to App Store and Google Play launch, improving time-to-market by 40%.
- Built the Travel Takaful module from scratch: quote engine, underwriting rules and checkout.
- Delivered the Next.js web platform alongside the mobile apps, sharing product and pricing logic.
- Reduced crash rate by 50% through Hermes profiling, render optimisation and normalised Redux Toolkit state.
- Increased user retention by 20% through an onboarding redesign delivered with the UI/UX team.

Tools and Technology: JavaScript, TypeScript, React Native, React.js, Next.js, Redux Toolkit, RTK Query, Node.js, AWS, payment gateways, Google Maps, push notifications, deep linking, social login, Jest

Takaful Bazaar - Dealer Application - iOS, Android - Insurtech / Sales Enablement

A dealer-facing application allowing agents nationwide to manage their accounts and monitor tasks, goals, targets and commissions from a single dashboard.

- Designed the commission and target tracking data model and its offline-tolerant sync behaviour.
- Built reporting views that gave the sales organisation daily visibility into the policy pipeline.

Tools and Technology: JavaScript, TypeScript, React Native, Redux Toolkit, RTK Query, Node.js, AWS, Jest

Cubix (May 2021 - Dec 2022)

Pauseitive - iOS, Android - Coaching / Productivity

A coaching and organisational goal-management platform. Users purchase minute-based subscriptions to schedule sessions with a success coach, and create goals, to-do lists and tasks individually or as a group.

- Implemented subscription tiers and premium access via StoreKit and Google Play Billing in-app purchases.
- Contributed to a 30% increase in user retention through the goal-tracking and progress experience.

Tools and Technology: JavaScript, TypeScript, React Native, Redux Toolkit, RTK Query, Node.js, AWS, in-app purchases, Jest

Party Shark - iOS, Android - Social / Events

An event discovery and hosting application. Users host parties with flexible planning options, invite friends, browse and navigate events on a map, RSVP, and progress through a gamified rank system.

- Built the invitation system, friend syncing and a custom search algorithm for event discovery.
- Reached 10,000+ downloads in the first quarter with strong ratings on both stores.

Tools and Technology: JavaScript, TypeScript, React Native, Redux Toolkit, RTK Query, maps, push notifications, deep linking, Jest

Puppy Mate - iOS - Marketplace / Pets

The first mobile-first platform for puppy breeding, buying and selling, letting owners find a breeding partner nearby or purchase a puppy directly in-app.

- Streamlined the journey for breeders and pet owners, supporting 10,000+ successful listings.
- Built the matching and listing flows on React Native with Firebase as the realtime backend.

Tools and Technology: React Native, Firebase, Redux, maps, push notifications, Jest

Glamic - iOS, Android - Beauty / On-Demand Services

A marketplace connecting beauty professionals with clients at a chosen time and location, with professional bios, portfolios, ratings and reviews.

- Built booking, scheduling and provider-discovery flows with location-aware search.
- Integrated payments, push notifications and deep linking across both platforms.

Tools and Technology: JavaScript, React Native, Redux Toolkit, RTK Query, maps, payments, Jest

Sedelle - Android, Web - Marketplace / Business Services

A platform connecting service providers with customers to promote collaboration and business visibility, built around dynamic profiles, service listings and messaging.

- Built the profile, listing and real-time messaging experience in React.js and Firebase.
- Contributed to 40% growth in brand-user engagement in the first months after launch.

Tools and Technology: React.js, JavaScript, Firebase, Redux

Engro GRRA Tool - iOS, Android - Enterprise / Process Automation

An enterprise tool automating internal and external meeting and interaction workflows across Engro Corporation, aimed at improving the process and outcomes of strategic planning interactions.

- Built structured interaction capture and reporting flows for a large corporate user base.

- Worked directly with the client's stakeholders on requirements and iterative delivery.

Tools and Technology: JavaScript, TypeScript, React Native, Redux Toolkit, RTK Query, Node.js, AWS, Jest

Ageless Aesthetics MediSpa - iOS, Android - Healthcare / MedSpa

A mobile application where the Ageless team performs live medical aesthetic treatment sessions and customers purchase monthly specials.

- Implemented live session streaming integration and in-app purchase of treatment packages.
- Handled the full release cycle across App Store Connect and Google Play Console.

Tools and Technology: JavaScript, React Native, Redux Toolkit, in-app purchases, push notifications, Jest

Panacloud Technologies (Apr 2020 - May 2021)

Bizad - iOS, Android - Mobility / Food Delivery

A ride-booking and food-ordering platform letting customers order from favourite restaurants and track orders end to end from the app.

- Built order placement and live order-tracking flows with maps integration.
- Delivered 10+ feature rollouts across the full SDLC and reduced defects by 35% by introducing unit tests.

Tools and Technology: JavaScript, TypeScript, React Native, Redux, maps, push notifications, Node.js, Jest

Gul Ahmed Textile Mills Limited (Dec 2018 - Apr 2020)

Ideas by Gul Ahmed - Web - E-Commerce / Retail

The consumer e-commerce platform of Gul Ahmed, Pakistan's largest textile company, covering the full apparel catalogue and checkout experience.

- Contributed frontend features across catalogue and checkout, and handled cross-browser and responsive testing.

Tools and Technology: React.js, JavaScript, HTML5, CSS3

Internal Merchandising and Production Dashboards - Web - Enterprise / Internal Tools

Internal React dashboards used by merchandising and production teams to track orders, inventory and production status.

- Improved page load time by 25% through component memoisation, request batching and code splitting.
- Partnered with backend engineers and product managers on API contracts and feature delivery.

Tools and Technology: React.js, JavaScript, HTML5, CSS3

EDUCATION

Master of Science (MS), Computer Science

NED University of Engineering and Technology, Karachi, Pakistan

Focus: Software Engineering, Artificial Intelligence, Data Science

Oct 2021 - Oct 2023

Bachelor of Science (BS), Computer Science

PAF-Karachi Institute of Economics and Technology (PAF-KIET), Karachi, Pakistan

Focus: Software Engineering, Artificial Intelligence, Data Science

Jan 2015 - Dec 2018

ADDITIONAL INFORMATION

Languages: English (professional working proficiency), Urdu (native), Arabic (intermediate)

Availability: 30 days' notice. Open to remote roles with US, UK and EU overlap, relocation to the UAE, Saudi Arabia or Qatar, and on-site or hybrid roles in Pakistan.

Domains Delivered: Fintech and digital banking, insurtech, ride-hailing and mobility, B2B commerce and marketplaces, government analytics, healthcare and veterinary services, beauty and wellness, e-commerce, developer tooling

Public Work: GitHub: github.com/Abdullahkiet | Technical content: youtube.com/MuhammadAbdullahDev | Portfolio: mabdullah.tech

References: Available on request