

MUHAMMAD ABDULLAH

Lead Software Engineer | React, Next.js & TypeScript

Karachi, Pakistan | Open to Remote (US / UK / EU time zone overlap)

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PROFESSIONAL SUMMARY

Lead Software Engineer with 8 years of experience building production React, Next.js and TypeScript applications and design systems for fintech, digital banking, e-commerce and enterprise dashboards. Currently a Lead Engineer at VentureDive, where I led the Ethr design system, a component library of 77+ accessible components and 5,600+ variants documented in Storybook that bridges Figma to production code. Strong across TypeScript in strict mode, component architecture, state management with Redux Toolkit and RTK Query, REST and GraphQL data layers, WCAG 2.2 accessibility, Core Web Vitals optimisation and Jest, React Testing Library and Playwright. AI-first engineer: uses Claude Code and Cursor daily, led their adoption across the team, and has shipped production LLM features including an in-app AI assistant. MS in Computer Science. Open to fully remote roles with US, UK and European time zone overlap.

CORE SKILLS

Frontend Engineering: 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

Design Systems & Accessibility: 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

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

State, Data & Performance: Redux Toolkit, RTK Query, Redux Saga, Zustand, TanStack Query, REST APIs, GraphQL, Apollo Client, Axios, WebSockets, Zod validation, Core Web Vitals (LCP, INP, CLS), Lighthouse, code splitting, lazy loading, bundle size and image optimisation, CDN and caching, memoisation, list virtualisation

Testing, DevOps & Cross-Platform: Jest, React Testing Library, Playwright, Cypress, Detox, TDD, unit and integration testing, ESLint, Prettier, SonarQube, CI/CD pipelines, GitHub Actions, Bitbucket Pipelines, GitLab CI, Jenkins, Vercel, AWS, Azure, Google Cloud, Firebase, Sentry, Node.js, Nest.js, Express, React Native (New Architecture), Expo, Swift 5, SwiftUI, Kotlin

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 & React

Sep 2023 - Present

VentureDive - Karachi, Pakistan

- Lead a squad of 5 engineers across four concurrent enterprise client products, owning frontend architecture, component standards, code review and technical mentoring.
- Led the Ethr design system end to end: a TypeScript component library of 77+ accessible components and 5,600+ configurable variants, fully documented in Storybook with design tokens and theming, bridging Figma to production code and cutting new-screen build time for consuming teams by roughly 40%.
- Delivered Falcon, an OAuth 2.0 and OIDC secured executive analytics dashboard for Qatar's Supreme Council for Economic Affairs and Investment, with interactive data visualisation, role-based access control and accessible chart components.
- Built wallet, card management and request-approval interfaces for AlinmaPay, a digital banking product for Alinma Bank (Saudi Arabia), applying strict TypeScript, normalised RTK Query caching and WCAG-aligned form patterns.
- Introduced Claude Code and Cursor across the 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 Testing Library and tightening the QA handoff process.

Senior Software Engineer - React & Next.js

Dec 2022 - Sep 2023

Takaful Bazaar - Karachi, Pakistan

- Built and launched the Next.js web platform for Pakistan's first digital Takaful (insurtech) marketplace, covering product comparison, quote flows and checkout, improving time-to-market by 40%.
- Owned the Travel Takaful module end to end across web and mobile, including the quote engine, underwriting rules, payment gateway integration and responsive checkout experience.
- Cut crash and error rates by 50% through profiling, render-cycle optimisation and normalised Redux Toolkit state across the React and React Native codebases.
- Built the dealer dashboard enabling nationwide agents to track targets, commissions and policy pipeline, with data tables, filtering and export.

Software Engineer - React & React Native

May 2021 - Dec 2022

Cubix - Karachi, Pakistan

- Delivered 15+ production applications for US, Canadian and UK clients across e-commerce, health, events, beauty and pet-care domains, covering web frontends and cross-platform mobile.
- Built Party Shark, an event discovery and hosting product 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 goal-management platform with subscription tiers and in-app purchase flows, contributing to a 30% increase in user retention.
- Built Sedelle, a service-provider marketplace with dynamic profiles, listings and real-time messaging using React.js and Firebase, contributing to 40% growth in brand-user engagement post-launch.

Associate Software Engineer - React & React Native

Apr 2020 - May 2021

Panacloud Technologies - Karachi, Pakistan

- Built Bizad, a ride-booking and food-ordering product with live order tracking, maps integration and payment flows, using React.js on web and React Native on mobile.
- Delivered 10+ feature rollouts across the full software development lifecycle, from planning and estimation through development, testing and 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, request batching and code splitting.
- Contributed frontend features to Ideas, Gul Ahmed's consumer e-commerce platform, using React, JavaScript, semantic HTML and CSS, and handled cross-browser and responsive testing.

SELECTED PROJECTS

- **Ethr Design System (VentureDive)** - TypeScript component library: 77+ accessible components, 5,600+ variants, design tokens, theming and full Storybook documentation, bridging Figma to production code.
- **Falcon Executive Dashboard (VentureDive)** - Analytics dashboard for Qatar's Supreme Council for Economic Affairs and Investment: OAuth 2.0 and OIDC authentication, interactive charting, role-based access.
- **Takaful Bazaar Web Platform (Takaful Bazaar)** - Next.js insurtech marketplace with product comparison, quote engine, Travel module and payment gateway checkout.
- **AlinmaPay (VentureDive)** - Digital banking product for Alinma Bank, Saudi Arabia: wallet, card management and transfer interfaces built with strict TypeScript and RTK Query.

EDUCATION

Master of Science (MS), Computer Science

Oct 2021 - Oct 2023

NED University of Engineering and Technology, Karachi, Pakistan

Bachelor of Science (BS), Computer Science

Jan 2015 - Dec 2018

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

ADDITIONAL INFORMATION

Availability: Open to fully remote roles with US, UK and European time zone overlap; 30 days' notice.

Open Source and Public Work: Active GitHub at github.com/Abdullahkiet; technical content published at youtube.com/MuhammadAbdullahDev.