

Abdulkhader Muhammadkunhi

Lead Software Engineer

Abu Dhabi · UAE · ak@itsak.in · github.com/abdulkader · linkedin.com/in/abdulkaderptp · itsak.in
Phone [+971-529854310](tel:+971-529854310)

SUMMARY

Lead Software Engineer with 15+ years of experience architecting and delivering high-performance, resilient web applications across enterprise and consumer-scale environments. Core specialisation sits at the intersection of PWA engineering for connectivity-challenged environments, real-time event-driven systems built on WebSockets and SSE, geospatial and map-driven interfaces, and optimistic UI patterns. In recent years, focus has expanded to AI-powered interfaces — streaming LLM experiences, speech-to-text/text-to-speech pipelines, and the API contracts connecting model inference to interactive UI.

EXPERIENCE

Lead Software Engineer – Frontend · Stealth Startup

Oct 2024 – Present · UAE

Contributing to a proprietary, enterprise-grade, mission-critical application under NDA — details intentionally limited.

Building Optimistic UI patterns with robust conflict resolution, ensuring operators always see a responsive interface while maintaining eventual consistency with backend state

Architecting responsive, real-time frontend experiences powered by the ArcGIS Maps SDK, enabling live geospatial data visualisation with continuous, WebSocket-driven updates — no page reload required

Building end-to-end AI interfaces — streaming LLM responses, speech-to-text input, and text-to-speech output — delivering a voice-capable AI assistant within a complex, high-stakes data application

Designing the client-side layer of an event-driven architecture using WebSockets and SSE, ensuring low-latency state synchronisation between real-time data feeds and the UI

Owning frontend security posture — enforcing XSS prevention, secure token handling, and Content Security Policy standards throughout the application

React · TypeScript · ArcGIS Maps SDK · WebSockets · SSE · Optimistic UI · LLM Streaming · Speech-to-Text

Senior Software Engineer – Full Stack · LocAI Ltd (Acquired by ai71)

May 2024 – Oct 2024 · UAE

Full-stack engineer building an AI-powered platform for legal advisory services — a domain where accuracy, traceability, and data sensitivity carry direct professional and legal consequences.

Built end-to-end AI interfaces spanning streaming LLM responses, speech-to-text input, automated document drafting, and PII redaction

Combined generative AI capability with the compliance-grade safeguards that legal-tech applications demand

React · Node.js · LLM Streaming · Speech-to-Text · PII Redaction

Chapter Lead & Principal Frontend Engineer · Floward

Jan 2022 – May 2024 · UAE

Led a chapter of frontend engineers across multiple product squads; set technical vision, coding standards, WCAG 2.1 accessibility guidelines, and career growth frameworks.

Architected a multi-brand design system and component library adopted across every product surface — reducing UI delivery time by ~40%

Implemented PWA capabilities (service worker caching, offline fallback pages, installability) improving resilience for MENA users in low-connectivity environments

Introduced Optimistic UI patterns for core checkout flows, reducing perceived latency and strengthening conversion confidence

Leveraged Next.js for SSR/SSG across marketing and product pages, driving Lighthouse scores above 90 through code-splitting, lazy loading, and Core Web Vitals auditing

Established a CI/CD-driven testing culture with automated Jest, React Testing Library, and Cypress suites

Implemented a Micro Frontend Architecture, establishing clear domain ownership across Checkout, My Account, and Catalog

React · Next.js · Design Systems · PWA · Optimistic UI · Micro Frontends · Jest · Cypress · WCAG 2.1

Senior Frontend Engineer · Eyewa

Jun 2019 – Jan 2022 · UAE

Designed and delivered a responsive, accessible, high-performance frontend for a fast-growing e-commerce platform serving millions of users across MENA.

Introduced GraphQL at the frontend layer, co-designing schemas with backend teams — eliminating over-fetching and improving page load times by 30%

Engineered a custom visual workflow builder — a headless CMS with drag-and-drop page composition — for non-technical stakeholders

Implemented Optimistic UI updates for cart and wishlist interactions while maintaining strict backend data consistency

Built automated visual regression and unit tests with Jest and React Testing Library; introduced Core Web Vitals monitoring in production

React · GraphQL · Optimistic UI · Jest · React Testing Library · Headless CMS

Lead Frontend Engineer · Sun & Sand Sports LLC Mar 2017 – May 2019 · UAE

Directed a team of frontend engineers across concurrent projects for one of the region's leading sports retailers, defining architecture, coding standards, and Magento 2 frontend theming strategy.

Spearheaded a full e-commerce frontend re-platform, improving conversion rate and reducing bounce rate through performance-driven, UX-focused engineering

Built CI/CD pipelines and Webpack-based build automation, cutting deployment times by 50%

Enforced accessibility, frontend security, and cross-browser compatibility standards across all delivered interfaces

Magento 2 · Webpack · CI/CD · Accessibility

Senior Full Stack Engineer · Aperto Middle East FZE Aug 2015 – Feb 2017 · UAE

Owned full-cycle development across PHP, Node.js, and modern JavaScript for enterprise-scale client web applications.

Led RESTful API design, system architecture decisions, and database modelling across multiple concurrent client projects

Mentored junior developers and enforced high coding standards through structured code reviews

PHP · Node.js · REST APIs · System Architecture

Earlier Experience

Senior Web Developer · Webmedia7 FZE LLC — Oct 2014 – Jul 2015 · UAE

eCommerce Web Developer · Geant Online — Feb 2013 – Sep 2014 · UAE

Team Lead & Web Developer · SRV Infotech — May 2011 – Sep 2012 · INDIA

SKILLS

PWA & RESILIENT ARCHITECTURE

Progressive Web Apps · Service Workers · Web App Manifest · Offline-First Architecture · Background Sync · IndexedDB

GEOSPATIAL & DATA VISUALISATION

ArcGIS Maps SDK · Map-Driven Interfaces · D3.js · Recharts · Mission-Control UI

REAL-TIME & EVENT-DRIVEN SYSTEMS

WebSockets · Server-Sent Events (SSE) · Event-Driven Architecture · Low-Latency State Sync

AI & LLM INTEGRATION

Anthropic Claude SDK · OpenAI SDK · Vercel AI SDK · AI Agents & Tool Use · Speech-to-Text / TTS

FRONTEND CORE

React · Next.js · TypeScript · JavaScript (ES2023+) ·
Redux · Zustand · Vue.js · React Native / Expo

SECURITY & QUALITY

XSS Prevention · JWT / OAuth · Content Security
Policy · WCAG 2.1 Accessibility

DESIGN SYSTEMS & WORKFLOW UI

Design System Architecture · Component Libraries ·
Drag-and-Drop UI · Figma

BACKEND DEVELOPMENT

Node.js · Express · Bun · PHP / Laravel · PostgreSQL ·
MySQL · MongoDB · Redis

TESTING & OBSERVABILITY

Jest · React Testing Library · Cypress · Playwright ·
Vitest · Lighthouse · Core Web Vitals

DEVOPS & TOOLING

Git / GitHub / GitLab · CI/CD Pipelines · Docker · AWS
· Turborepo · Webpack

EDUCATION

BTech · Electronics & Communication Engineering · AWH Engineering College
2006 – 2010 · India

INTERESTS

Travel · Photography · Reading · Cricket