

# VAIBHAV SINGH

Senior Full Stack Engineer | GenAI & Agentic AI Specialist | React / React Native / Next.js

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## PROFESSIONAL SUMMARY

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Senior Frontend & Full Stack Engineer with 8+ years building production-grade web and mobile applications for fintech, banking, and enterprise clients including Abu Dhabi Commercial Bank (ADCB). Specialised in integrating LLM and Agentic AI workflows (Groq, OpenAI-compatible APIs, LangChain, RAG pipelines) into React.js, Next.js, and React Native products. Proven record of migrating legacy systems, shipping AI-powered tools, reducing API latency by 40%, and delivering Arabic/RTL bilingual experiences for the GCC market. Currently targeting senior AI-augmented engineering roles across UAE, KSA, and Qatar.

## CORE SKILLS

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### AI & LLM:

Groq LLM API, OpenAI-compatible APIs, Anthropic Claude API, LangChain, Pinecone (Vector DB), RAG Pipelines, Prompt Engineering, Streaming (SSE), Function Calling, Multi-Agent Architecture, AI-Assisted Development (Copilot)

### Frontend:

React.js 19, Next.js 14/16 (App Router), React Native, Expo, TypeScript, JavaScript ES6+, Tailwind CSS, Material UI, Material Design 3, HTML5, CSS3, Framer Motion, Three.js

### State & Architecture:

Redux Toolkit, TanStack Query, Zustand, Context API, Micro-Frontends, Atomic Design System, Monorepo (Turborepo, pnpm)

### Backend & APIs:

Node.js, Express.js, NestJS, RESTful APIs, GraphQL, Prisma, MongoDB, PostgreSQL (Neon), Firebase, JWT Auth, OAuth2, Multi-Tenant Architecture

### Testing & Quality:

Jest, React Testing Library, Cypress, Playwright, WCAG Accessibility, Lighthouse, Web Vitals (LCP, CLS, FID)

### DevOps & Tooling:

Git/GitHub, GitHub Actions, CI/CD, Webpack, Vite, ESLint, Prettier, Storybook, Docker, Vercel, Netlify

### Localisation:

Arabic/English (RTL) bilingual UIs, i18n, GCC compliance (UAE Pass, ZATCA, FTA)

## PROFESSIONAL EXPERIENCE

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### React.js Developer (AI-Enhanced Frontend)

Abu Dhabi Commercial Bank (ADCB) | Sep 2025 – Present | Abu Dhabi, UAE

- Spearheaded migration of legacy Kony mobile platform to React Native and Vite → Next.js web stack, cutting page load times by 35% and enabling AI feature integration.
- Built AI-assisted onboarding flows leveraging UAE Pass authentication and real-time third-party APIs, reducing manual KYC processing time by 30%.
- Designed and delivered an Atomic Design System component library used by 10+ engineers, accelerating feature delivery cycles by 40%.
- Integrated GraphQL and REST APIs with Redux Toolkit and TanStack Query, eliminating 60% of redundant network calls.

- Authored extensive Jest and RNTL test suites covering transaction filters, beneficiary controllers, transfer trackers, and schedule payments — establishing patterns for RTK stores, i18n constants, and PanResponder gesture testing.
- Drove Lighthouse-led audits, improving Web Vitals (LCP, CLS, FID) scores across iOS and Android.
- Enforced CI/CD pipelines (GitHub Actions), feature-branching strategies, and code-review standards across distributed engineering teams.

### Senior Frontend Engineer

*Coforge Ltd* | Mar 2025 – Aug 2025

- Developed React 18 + Vite + TypeScript applications with Context API and Redux, improving component scalability and maintainability.
- Engineered RESTful API integrations achieving 40% reduction in API latency, improving user session retention.
- Built responsive, accessible UIs with Tailwind CSS and deployed secure payment gateway integrations processing live transactions.
- Delivered virtualisation solution reducing IT infrastructure costs by 25%.

### Senior Web Developer

*CG Infinity* | Mar 2024 – Mar 2025

- Architected Micro-Frontend systems enabling independent module deployment, reducing time-to-release per feature by 50%.
- Established Jest unit testing and Playwright E2E testing frameworks, achieving 85%+ code coverage and near-zero regression rate.
- Led cross-functional collaboration with UX, QA, and backend teams across 4 concurrent product tracks.

### IT Consultant – Frontend (React / TypeScript)

*Tata Consulting Engineers Pvt Ltd* | Nov 2023 – Mar 2024

- Built React 18 + TypeScript applications with full type safety, reducing runtime bugs by an estimated 30%.
- Delivered RESTful API backend layer reducing application latency by 40% and improving scalability.
- Integrated third-party payment APIs ensuring secure, enterprise-compliant transaction processing.

### Frontend Engineer – React.js

*National Metallurgical Lab* | Aug 2021 – Sep 2023

- Designed and implemented Micro-Frontend architecture enabling independent deployment of 6+ application modules.
- Conducted WCAG accessibility audits ensuring inclusive experiences for 10,000+ users.
- Built comprehensive test suites with Jest and Cypress, maintaining stability across 3 major product versions.

### Web UI Developer

*Skyscraper Solutions* | Jan 2020 – Aug 2021

- Modernised legacy jQuery UIs with React.js components, reducing codebase size by 40% and improving render performance.
- Implemented RESTful API integrations reducing average server response times by 30%.

### Frontend Developer / React Engineer

*MS Clanstech & Silk Route Media* | Sep 2018 – Jan 2020

- Delivered responsive React.js + Redux applications, accessible UI libraries, and RESTful API integrations for fintech and banking clients.

## KEY AI & FRONTEND PROJECTS

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### **Performance Doctor** — AI-Powered React Native Performance Analyzer

**Stack:** React Native, TypeScript, Groq LLM API, Node.js, PostgreSQL, Vite, Tailwind CSS

- Built an AI-powered developer tool using Groq LLM to detect React Native performance bottlenecks (memory leaks, slow renders, bundle size issues) and generate actionable code fixes.
- Delivered real-time impact metrics (FPS, render time, memory) with before/after code comparison views, cutting debug time by 60% in beta testing.
- Reported 40% faster app performance after applying AI-suggested optimisations.

### **AI Based Code Review** — Automated PR Review Assistant

**Stack:** Groq AI, PostgreSQL, Node.js, GitHub API, TypeScript

- Engineered an AI code review assistant integrating Groq AI for automated quality checks, security vulnerability scanning, and best-practice enforcement on pull requests.
- Persisted review history in serverless PostgreSQL; exposed GitHub API webhooks for auto-PR comments.
- Reduced manual review turnaround time by ~50% on internal test repositories.

### **Frank Banking App** — React Native Mobile Banking Platform

**Stack:** React Native, Expo, TypeScript, Material Design 3, expo-secure-store

- Built a production-grade React Native banking app with biometric login (Face ID, Touch ID, PIN fallback), balance toggle, card management, payments, loans, and push notifications.
- Implemented bilingual EN/AR RTL support and dark/light theming aligned with Material Design 3, targeting GCC mobile banking standards.
- Secured tokens and sensitive data with expo-secure-store and JWT refresh-token rotation.

### **FalconHire AI** — GCC-Focused AI Interview Prep SaaS

**Stack:** Next.js, TypeScript, Tailwind CSS, Prisma, OpenAI, PostgreSQL

- Architected a GCC-focused interview prep platform with mock HR screens (type or speak), recruiter-style AI scoring, and resume / LinkedIn AI surfaces.
- Integrated Voice STT/TTS for spoken interview practice and multi-LLM scoring pipeline for recruiter-grade feedback.
- Shipped public landing page with EN/AR bilingual support and dark mode, targeting UAE/KSA candidates.

### **Dev Agent** — Full-Stack AI Coding Assistant

**Stack:** Next.js 16 App Router, TypeScript, Groq SDK, Prisma, PostgreSQL

- Built a full-stack AI coding assistant featuring streaming chat (Llama 3.3-70B), multi-round Agent Mode with file/shell/search tools, and a 5-tier model ladder.
- Implemented OAuth + email authentication, persistent chat history, and rate-limited multi-tenant isolation.
- Delivered SSE streaming, function calling, and retry strategies for resilient agent execution.

### **City Pulse** — React Native Local Events Discovery App

**Stack:** React Native, Expo, Firebase, TypeScript, Ticketmaster API

- Built a cross-platform Expo app for discovering local events, integrating Firebase Auth and Firestore for user profiles and favourites.
- Added biometric login (Face ID / fingerprint) with SecureStore and Ticketmaster API for live event data.
- Implemented dark/light theming and EN/AR RTL support optimised for GCC users.

## **LEADERSHIP & STANDARDS**

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- Led code reviews and enforced engineering best practices across multi-disciplinary teams at ADCB.
- Defined reusable component standards, performance guidelines, and AI integration patterns adopted across product squads.

- Mentored junior and mid-level engineers on React Native, TypeScript, LLM integration, and scalable architecture.
- Collaborated with product, backend, and UX teams to translate business requirements into measurable technical outcomes.

## EDUCATION & CERTIFICATIONS

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### Bachelor of Computer Applications

Institute of Management and Entrepreneurship Development | 2013 – 2016

- GitHub Copilot – AI for Coding & Development (Udemy, Sep 2025)
- Next.js 14 – eCommerce App (Udemy, Apr 2025)
- The Ultimate React.js Course (Udemy, May 2024)
- WooCommerce Theme Development (Udemy, Jul 2022)

## LANGUAGES

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English (Professional) | Hindi (Native)