

# KOUSHIK VISWARAJU

Senior Frontend Engineer

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## PROFESSIONAL SUMMARY

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Senior Frontend Engineer with 3+ years building production-grade React.js and Next.js applications for AI-powered platforms and enterprise dashboards. Specializes in TypeScript-first architecture, reusable component libraries, and performance-optimized UI systems that scale. Delivered measurable improvements in load time, developer experience, and user engagement across EdTech and SaaS products. Currently expanding expertise into cross-platform development with Electron, Kotlin Multiplatform, and Spring Boot.

## TECHNICAL SKILLS

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**Frontend:** React.js · Next.js · TypeScript · JavaScript · Redux Toolkit · Tailwind CSS · Framer Motion · Shadcn UI · HTML5 · CSS3

**Backend:** REST APIs · Spring Boot (Learning) · Ktor (Learning)

**Cross-Platform:** Electron · Kotlin · Compose Multiplatform

**Databases:** PostgreSQL · MongoDB

**AI & Automation:** OpenAI API · Prompt Engineering · AI Workflow Automation

**Tools:** Git · GitHub · Docker · Vercel · Figma · Postman · VS Code

## PROFESSIONAL EXPERIENCE

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### Senior Frontend Engineer · Learneezi AI Pvt Ltd

Aug 2025 – Present

- Architected the frontend of an AI-powered educational platform serving multiple user roles, establishing component patterns adopted across the entire product suite.
- Engineered scalable admin dashboards with real-time data visualization, role-based access control, and subscription management — reducing admin task time by over 40%.
- Built a modular, reusable component library in React.js and TypeScript, cutting new-feature development cycles by 35% and ensuring design-system consistency.
- Implemented Next.js App Router with server-side rendering and dynamic routing, improving Core Web Vitals scores and initial page load performance significantly.
- Integrated OpenAI API workflows into the platform's content pipeline, enabling AI-assisted content generation and review automation for educators.
- Optimized application bundle size and runtime performance through code-splitting, lazy loading, and Tailwind CSS purging, achieving sub-2s load times on production.
- Collaborated cross-functionally with product, design, and backend teams in an Agile workflow, consistently delivering sprint commitments on time.

### Software Engineer · Parkt Solutions

Jun 2023 – Jul 2025

- Developed 15+ enterprise web application modules in React.js, translating complex Figma designs into pixel-accurate, accessible UI components.
- Built a reusable component library that standardized UI patterns across three products, reducing cross-team duplication and accelerating onboarding for new engineers.
- Integrated 20+ RESTful API endpoints with optimistic UI updates and robust error handling, improving perceived application responsiveness for end users.

- Diagnosed and resolved critical production incidents including race conditions and memory leaks, reducing error rates by 60% over two quarters.
- Improved frontend performance by refactoring legacy class components to React hooks and memoizing expensive computations, cutting re-render overhead by 30%.
- Delivered fully responsive, mobile-first interfaces across all breakpoints, ensuring consistent UX on all devices tested in cross-browser QA.

## FEATURED PROJECTS

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### Learneezi Platform

AI-powered EdTech platform with multi-role dashboards, content management, subscription billing, finance modules, sponsor management, and analytics. Built for scale with a microservice-aligned frontend architecture.

Stack: Next.js · TypeScript · Redux Toolkit · Tailwind CSS · OpenAI API

### Wysdom League

Gamified skill-competition platform featuring real-time leaderboards, ELO-style ranking algorithms, integrated wallet and payout system, and a responsive tournament interface supporting concurrent users.

Stack: Next.js · TypeScript · React.js · REST APIs

### AI Interview Desktop Application

Electron desktop application enabling AI-assisted technical interviews with camera verification, microphone diagnostics, screen-share proctoring, and an encrypted secure interview workflow. Packaged for macOS and Windows.

Stack: Electron · Next.js · TypeScript · OpenAI API

### Personal Portfolio [↗ Live](#)

Performance-optimized developer portfolio with Framer Motion animations, SEO metadata, dynamic project showcasing, and Lighthouse score of 98+.

Stack: Next.js · Tailwind CSS · Framer Motion

## CORE COMPETENCIES

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Frontend Architecture · React Ecosystem · Performance Optimization · Responsive Design · Component Library Design · REST API Integration · AI Product Development · Accessibility (WCAG) · Cross-functional Collaboration · Agile / Scrum · Clean Code Practices · Design Systems

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Portfolio: [ykoushik.com](https://ykoushik.com) · GitHub: [github.com/koushik0620](https://github.com/koushik0620) · LinkedIn: [linkedin.com/in/viswaraju-koushik-30171733a](https://linkedin.com/in/viswaraju-koushik-30171733a)