

Alireza Iranpour CV

Alireza Iranpour

Frontend Developer | Technical Writer | QA Engineer

* Isfahan, Iran

* +98 990 887 0799

* a.iranpour88@gmail.com

* airanpour.ir

* About Me

Hey there! I'm Alireza, a front-end developer coding seriously for the past two years. My journey in software development has led me to specialize in creating high-quality, user-centric web applications. I thrive in environments where I can bridge the gap between design aesthetics and robust, performant code.

I turn ideas into fast, clean, modern web interfaces using React, Next.js, and Tailwind CSS. These tools form the backbone of my frontend stack, allowing me to build scalable applications efficiently. Beyond coding, I recognize the critical role of clear communication and quality assurance. I also enjoy writing clear documentation—ensuring that the 'why' and 'how' of the code are accessible—and doing rigorous QA testing to catch the tiniest issues before they reach the end-user 🖥️. My approach is holistic, covering development, documentation, and quality control.

* Skills Deep Dive

A comprehensive overview of the technologies and methodologies I employ across my roles:

CategoryCore CompetenciesDetails & ProficiencyFrontend MasteryReact.js, Next.js, TypeScriptExpertise in functional components, Hooks, server-side rendering (SSR) with Next.js, and building type-safe applications using TypeScript.Styling & DesignTailwind CSS, CSS Modules, SCSSProficient in utility-first CSS methodologies for rapid UI development and ensuring design consistency across projects.QA / TestingManual testing, Accessibility Audits (WCAG), Bug ReportingExperienced in designing test cases, executing exploratory testing, utilizing browser DevTools for performance profiling, and logging detailed, reproducible bug reports.Technical WritingAPI Docs (OpenAPI/ Swagger), Developer Guides, Project Documentation (Markdown/MDX)Focus on creating documentation that is accurate, concise, and structured for technical audiences, facilitating faster onboarding and integration.Tools & EcosystemGit, Liara (Platform), Vercel (Deployment), Figma, Chrome DevTools, NotionFamiliarity with CI/CD concepts, version control best practices, design handoff workflows, and performance debugging tools.

* Experience Chronicle

My professional journey has allowed me to wear multiple hats, combining engineering rigor with documentation clarity.

Frontend Developer – Airplus Project

As a core frontend contributor to the Airplus suite, my primary focus has been delivering enterprise-grade features for both the main application (`airplus.app`) and the accompanying technical documentation portal (`docs.airplus.app`).

- **UI Development:** Developed complex, responsive user interfaces utilizing React.js and Next.js, ensuring pixel-perfect implementation based on provided Figma designs.
- **Component Architecture:** Spearheaded the creation of a shared, reusable component library, significantly reducing boilerplate code and improving development velocity across the team.

- Performance Optimization: Implemented lazy loading, code splitting, and optimized data fetching strategies to achieve sub-second initial load times (Time To Interactive metrics were reduced by an average of 18%).
- Design System Contribution: Actively participated in defining and documenting the core design tokens and component standards for the nascent design system.

QA Engineer – Freelance Projects

Dedicated two years to ensuring software quality across diverse client projects, focusing heavily on user experience and compliance.

- Manual & Exploratory Testing: Executed thorough manual testing across various browsers and devices, focusing on edge cases and complex user workflows.
- Accessibility Audits: Conducted preliminary accessibility checks using automated tools (like Lighthouse) and manual screen reader simulations to identify WCAG violations .
- Defect Management: Logged detailed bug reports using standardized templates, including steps to reproduce, expected vs. actual results, environment details, and severity ratings, which helped developers triage issues quickly.

Technical Writer – Personal Docs & Open Source

Maintaining a commitment to clear communication by documenting personal projects and contributing to external repositories.

- Documentation Focus: Wrote and maintained comprehensive Markdown/MDX documentation, focusing on developer-friendly explanations of setup, configuration, and advanced usage scenarios 📖.
- API Documentation: Drafted clear specifications for small internal APIs, utilizing structured formats to ensure clarity for integration partners.

- Knowledge Transfer: Created tutorials and guides designed to lower the barrier to entry for new contributors or users.

Robotics Engineer – Isfahan Robotics Team

This intensive, short-term project honed my problem-solving skills under high pressure, requiring strong algorithmic thinking.

- Autonomous Systems: Led the electromechanical subsystem responsible for pathfinding and sensor integration in an autonomous competition robot.
 - Programming: Implemented control logic using C++ for low-level motor control and Python for high-level decision-making algorithms, including PID controllers.
 - Achievement: Success culminated in winning 1st place in the Isfahan Province competition and securing 4th place nationwide, validating the robustness of the implemented control systems.
-

* Education Roadmap

My academic pursuits are geared towards strengthening my foundational knowledge in computer science and architecture.

B.Sc. Computer Engineering – Islamic Azad University, Khorasgan Branch

Currently immersed in theoretical computer science, complementing my practical frontend skills with a deeper understanding of system design.

- Current Focus: Deep dive into Algorithms, Data Structures, and Operating Systems principles.
- Relevance: Learning software design patterns and modern web architecture principles to enhance scalability and maintainability of my production code .

High School Diploma (Mathematics) – Shahid Rajaei High School, Isfahan

A rigorous academic background emphasizing logic, mathematics, and scientific methodology.

- Key Subjects: Advanced Calculus, Physics, and Logic.
 - Extracurricular: This period was heavily supplemented by practical work in robotics , providing early exposure to structured project execution.
-

* Highlights & Key Achievements

Tangible results showcasing technical competency and competitive spirit.

- * 1st place — Isfahan Provincial Robotics Competition (2022)
 - * 4th place — National Robotics Championship (Iran, 2022)
 - * Built & deployed production Airplus interfaces (2023–2025), handling real-time user interactions and complex state management.
 - * Authored comprehensive developer documentation utilized by multiple open-source teams, improving onboarding time by an estimated 30%.
 - Demonstrated Proficiency in Type Safety: Successfully migrated legacy JavaScript modules to TypeScript within the Airplus project, eliminating numerous runtime errors related to data contract violations.
-

* Languages & Communication

Effective communication is paramount in both technical writing and collaborative development.

- Persian — Native Fluency. Full professional and technical command.

- English — Professional Proficiency. Capable of reading technical specifications, participating in complex technical discussions, and delivering high-quality documentation.
-

* Technical Deep Dive: Performance & Architecture

To further illustrate technical depth, here are some areas where I apply rigorous engineering principles:

React State Management Considerations

When designing features, I weigh the trade-offs between different state management solutions based on complexity:

1. Local State (`useState/useReducer`): Ideal for isolated component logic.
2. Context API: Used for mid-level state sharing (e.g., theme settings, user locale).
3. External Libraries (e.g., Zustand/Redux Toolkit): Employed for global application state requiring complex asynchronous operations or high data volume.

A simplified view of selector optimization in React:

\$\$

$$\text{Render Cost} \propto \text{Component Tree Depth} \times \sum (\text{Prop Volatility} \times \text{Component Re-render Time})$$
 \$\$

Minimizing Prop Volatility through memoization (`useMemo` , `useCallback` , `React.memo`) is crucial for performance gains.

Accessibility Focus (A11Y)

In my QA and development work, adherence to ARIA standards is mandatory. Key areas of focus include:

- Keyboard Navigation: Ensuring all interactive elements are reachable and operable via the Tab key and associated shortcuts.
- Semantic HTML: Prioritizing native HTML elements over generic `div` s wherever possible.
- ARIA Attributes: Correctly applying `aria-label` , `aria-describedby` , and roles when necessary to enhance screen reader interpretation. For instance, dynamically updating an error message:

When form validation fails: `element.setAttribute('aria-invalid', 'true');`

Next.js Rendering Strategies

I select the appropriate Next.js rendering strategy based on data volatility and user interaction needs:

Strategy	Use Case	Performance Implication
Static Site Generation (SSG)	Marketing pages, documentation (low churn)	Fastest initial load; content built at build time.
Server-Side Rendering (SSR)	Pages requiring fresh user-specific data on every request	Slower Time To First Byte (TTFB), but always up-to-date data.
Incremental Static Regeneration (ISR)	Blog posts, product listings that update periodically	Balances SSG speed with the need for occasional updates without full redeployment.

* Design Notes & Style Philosophy

My CV itself reflects my design philosophy: clean, structured, and modern.

- Typography: A preference for modern, highly legible sans-serif fonts (like Inter or Poppins proxies) to ensure professional presentation across digital mediums.

- Color Palette: Utilizing a high-contrast, energetic palette where red serves as the primary accent color, providing visual guidance for important elements (titles, highlights), balanced by strong black text on white space.
 - Structure and Balance: Employing generous white space and clear horizontal rules (- - -) to section off information logically, preventing cognitive overload. The use of subtle emoji icons adds visual texture without sacrificing professionalism.
 - Responsiveness Consideration: Although this is a static document representation, the underlying design principles aim for readability across various screen sizes, reflecting my frontend expertise in building responsive UIs.
-

Final Considerations

My combination of deep Frontend Development skill, dedicated QA discipline, and precise Technical Writing ability allows me to deliver high-quality digital products from concept to deployed, well-documented reality. I am constantly seeking challenges that require meticulous attention to detail and architectural foresight.