

PIYUSH ARORA

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TECH LEAD

React | Next.js | Architecture | Full-Stack

PROFESSIONAL SUMMARY

Tech Lead with **7+ years** of experience designing and scaling high-traffic web applications. Deep expertise in **React, Next.js, frontend architecture, and performance engineering**, with practical experience owning full-stack feature delivery. Proven track record of **leading teams, improving Core Web Vitals, and shipping business-critical features** while applying Generative AI to real-world product and engineering workflows.

CORE SKILLS

Frontend Engineering

- React 18, Next.js (App Router, SSR, Server Components)
- JavaScript (ES6+), TypeScript
- Zustand, Redux Toolkit
- Design Systems, Storybook
- Core Web Vitals (LCP, CLS, INP)
- Browser rendering, performance profiling, and Chrome DevTools

Backend

- Node.js, REST APIs, BFF patterns
- MongoDB
- Service Workers, IndexedDB

Generative AI

- GenAI-powered chat and agentic applications
- Calling Workflow automation (n8n, Deepgram, ElevenLabs, OpenAI)
- AI-assisted development (Cursor, Figma MCP, automated code reviews)

Engineering Leadership

- Technical ownership and architecture decisions
- Mentorship and code reviews
- Sprint planning, task estimation, and goal setting
- Cross-functional collaboration

PROFESSIONAL EXPERIENCE

INFO EDGE INDIA

Tech Lead (Mar 2024 – Present)

Lead Engineer (Aug 2022 – Feb 2024)

- **Own frontend architecture and system design** for high-traffic recruiter, jobseeker, and CRM platforms serving **millions of daily active users**, driving tech stack decisions, scalability planning, and quarterly roadmap execution.
- Architected and scaled a **centralized design system** using Storybook and Lerna, enabling UI standardization across **3+ engineering teams** and reducing feature delivery time by **30%**.

- Improved **Core Web Vitals (LCP, CLS, INP) into the "Good" range**, directly improving **SEO rankings and user engagement metrics** by migrating from Next.js Pages to **App Directory with Streaming** and implementing scalable Server Components architecture.
- Optimized **high-traffic application performance** by implementing event batching using Service Workers and IndexedDB, reducing frontend network calls by **approximately 40%** across **1M+ monthly sessions**.
- Built and shipped **GenAI-powered agentic chat copilot** for recruiters using Mastra AI Framework, enabling natural language actions, **reducing recruiter workflow time by 25%**.
- Developed **n8n automation workflows** integrating Deepgram, ElevenLabs, and OpenAI APIs for automated lead calling, **eliminating 20+ hours of manual calling effort weekly**, and enhanced developer productivity by **~30%** through AI-assisted workflows (Cursor + Figma MCP, automated PRD grooming, code review assistance).
- Designed and implemented **scalable RESTful APIs and Node.js backend services** with BFF patterns to aggregate microservice data, improving **system reliability and frontend-backend separation** for distributed architecture.
- Streamlined **CI/CD pipelines** using Jenkins with health checks and graceful traffic switching to enable **zero-downtime deployments**, supporting **continuous delivery for production systems**.
- Mentor engineers through code reviews, architecture discussions, and technical guidance while remaining hands-on in **system design and core development work**.

TATA AIG GENERAL INSURANCE

Senior Software Engineer (Sep 2020 – Aug 2022)

- Led frontend development for Tata AIG's public insurance platform covering health, travel, and motor insurance products.
- Built scalable, conversion-focused policy purchase flows with comprehensive unit testing (Jest, React Testing Library) to ensure code quality and reduce production bugs.
- Collaborated closely with backend teams to integrate APIs and improve application performance and reliability.

EMIDS TECHNOLOGIES

Software Engineer (Jun 2019 – Sep 2020)

- Developed ad-tech and educational web applications with focus on performance and scalability, collaborating with cross-functional teams to deliver high-quality client-facing solutions.

INFOGAIN INDIA

Software Engineer (Jul 2017 – Jun 2019)

- Developed enterprise web applications, integrated frontend modules with backend APIs, and built strong foundation in scalable web development.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science & Engineering

G.L. Bajaj Institute of Technology & Management | 2013 – 2017