

# BARUN PRASAD

## UI Architect & Strategist

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## SUMMARY

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Results-driven Frontend Engineering Leader with 17+ years of experience architecting high-performance web applications and design systems for enterprise and healthcare clients. Proven expertise in React ecosystem, scalable frontend architectures, and end-to-end product delivery. Known for driving technical strategy, leading multi-disciplinary teams, and delivering immersive, accessible, and performant user experiences. Strong background in stakeholder collaboration, client engagement, and mentoring next-gen technical leaders.

## KEY PROJECT HIGHLIGHTS

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- **Particle Design System** (Moxe Health): Collaborated with various stakeholders to design and build an internal design system to unify UX across apps using React.js and CSS-in-JS for styling, resulting in 40% faster feature rollouts and fewer design inconsistencies.
- **Virtual EHR App**: Enabled smart launch and API integration simulation using Next.js and FHIR protocols.
- **Device Management Framework (DMF)** (Walmart): Created a configurable frontend for managing and onboarding in-store hardware.
- **ROI Fax Management**: Developed PDF viewing, merging, and smart data ingestion tools with React + PDF.js.
- **Arctic Design Kit**: Open-source React-based component library developed to experiment with emerging frontend strategies including Material UI's **PigmentCSS** with a server-first UI rendering approach. Supports ongoing research in integrating **AI-based UI generation** and dynamic design automation.

## CORE COMPETENCIES

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- **Frontend Engineering**: React.js, Next.js, React Native, Redux, TypeScript, JavaScript (ES6+), TypeScript, Angular, Electron, Framer Motion, HTML5, CSS3.
- **Design Systems**: [Arctic Design System](#), Particle Design System, Tailwind, SCSS, CSS-in-JS, Storybook
- **Architecture**: SSR, SPA, Micro-Frontends, Headless CMS, Component Libraries

- **Backend & APIs:** Node.js, Fastify, Java, .NET Core, GraphQL, REST.
- **Databases:** RDBMS, NoSQL, GraphDB.
- **Accessibility:** WCAG 2.1/2.2 AA, ARIA standards.
- **Tooling/DevOps:** Git, GitHub, Docker, Webpack, Vite, Rollup, NX, CI/CD (GitHub Actions, Netlify, Vercel).
- **Testing:** Vitest, Jest, React Testing Library, Chromatic, Codecov, Axe.
- **Leadership:** Stakeholder Management, Team Mentoring, Product Strategy, Agile, Cross-functional Team Leadership

## EXPERIENCE

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### Director of Technology | Code and Theory | Bengaluru | June 2025 – Present

- Leading frontend technology initiatives at Code and Theory, focusing on modernizing UI architecture, design system adoption, and micro-frontend strategies across enterprise projects.

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### UI Architect | Moxe Health | Bengaluru | Sep 2023 – April 2025

- Headed the **UI Center of Excellence**, defining scalable architecture, engineering standards, and mentoring 20+ engineers.
- Designed and led implementation of the **Particle Design System**, improving UI consistency and enabling 40% faster feature delivery across apps.
- Owned architecture and execution of the **Virtual EHR Testing Platform**, reducing integration errors by 20% and improving test coverage by 30%.
- Partnered with stakeholders and clients to align UI strategy with clinical workflows using **FHIR**, boosting data accessibility and performance by 25%.
- Led frontend modernization of ROI ecosystem, introducing SSR, accessibility-first principles, and observability using Grafana Faro.

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### Staff Engineer | Walmart Global Tech | Bengaluru | Sep 2021 – Sep 2023

- Led the frontend architecture and delivery for mission-critical retail systems including **COWM**, **TLOG Viewer**, and **Device Management Framework**.
- Built a **cross-platform device onboarding system**, reducing setup time by 25% and supporting enterprise-scale rollouts.

- Improved mobile self-checkout systems with a resilient frontend, cutting transaction failures from 30% to <2%.
- Spearheaded the UI modernization of **TLOG viewer**, leading to a 20% increase in usability scores.
- Provided technical leadership to a 20+ member team, ensuring high code quality and successful delivery across global stakeholder groups.

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## Principal Engineer | HealthEdge Technologies India | Bengaluru | Jun 2019 – August 2021

- Led the frontend technology stack and mentored a team of **10+ engineers** while collaborating with cross-functional stakeholders.
- Modernized legacy desktop apps into web-first solutions, resulting in a 40% gain in productivity.
- Worked directly with business and QA teams to implement testable, scalable UI components within regulated workflows.

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## Senior Engineer | HealthEdge | Burlington, MA, USA | Oct 2015 – May 2019

- Worked in the re-architecture of **Care Manager** leading a team of 5 frontend engineers, reducing load time and improving accessibility compliance.
- Delivered member portal with responsive UI and 40% faster page loads.
- Led frontend for analytics dashboards with custom Highcharts integrations.

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## Sr. Solution Engineer | Deloitte Consulting LLC | Camp Hill, PA | Dec 2014 – Oct 2015

- Enhanced PA human services UI, improving process efficiency by 35% and reducing delays.

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## Project Lead | L&T Infotech | Various USA Locations and Mumbai | Jul 2007 – Dec 2014

- Led frontend modernization and migration projects for clients including **MunichRe**, **Travelers**, and **Insurity**.
- Delivered self-service portals and workflow tools that significantly reduced task time and increased engagement.

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## EDUCATION

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**B.Tech in Computer Science** | Bengal College of Engineering & Technology | 2003 - 2007 | GPA: 8.54