Aisha Sartaj — Portfolio Website PRD

1) Overview & Goals

Mission: Build a fast, scalable, emotionally intelligent portfolio website that reflects Aisha's technical expertise, creativity, and curiosity. The site must be modern, accessible, and expandable — capable of growing into a long-term professional platform with live sessions, blogs, and case studies.

Primary Goals: - Showcase work, thought process, and personality through interactive storytelling. - Achieve Lighthouse $\geq$ 90 across all pillars (desktop & mobile). - Use scalable architecture (Next.js + Tailwind + TypeScript + Vercel).

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2) Tech Stack

Framework: Next.js (App Router, TypeScript)

Frontend: - **Tailwind CSS** for styling (with shadcn/ui component primitives) - **Framer Motion** for animations (smooth card drags, page transitions) - **Lucide React Icons** for clean iconography

Backend: - **Vercel Serverless Functions** for the contact form (with validation + hCaptcha) - **Resend** for secure email delivery

Database (future-ready): - **Supabase (Postgres)** — for storing form submissions, analytics, or blog data

Deployment: - **Vercel Hosting** (auto HTTPS, CI/CD with GitHub) - **Domain:** buildwithaisha.com (DNS via Vercel)

Analytics: - **Plausible** (lightweight, privacy-focused)

Design Tokens: - CSS variables bound to Tailwind config for light/dark mode theming - Primary accent: Emerald Green (emotionally resonant, human + tech blend)

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3) Information Architecture & Layout

Overview:
A single-page, mobile-first portfolio with smooth scroll and anchor navigation. Additional pages like `/writing` or `/case-study/<slug>` can be added later.

Sections & Order

Hero —

- Identity: *Aisha Sartaj — AI/ML Engineer Enthusiast*
- Tagline: *Build with Aisha — Exploring intelligence, empathy, and creativity through code.*
- Optional evolving sub-tagline: *AI Engineer • Building human-centered systems.*
- CTAs: View My Work, Resume, GitHub, LinkedIn.

About Me —

- Professional bio + portrait.
- Skill chips highlighting key domains.
- **Resume** button (opens PDF or Notion CV).
- **Life** button → modal overlay with creative tiles (🎨Art,   Poetry,   Reading, 📷Photography).
- Each tile includes short caption + external link.
- Purpose: maintain professional tone while showing depth & warmth.

Now —

A **real-time creative dashboard** capturing what I'm currently building, learning, and exploring — structured as a three-pane layout that updates monthly, reflecting **technical progress, curiosity, and community engagement.**

Left — Presently Building:

Highlights one or two active projects. - Project Title + Brief Description *(e.g., SocratifyMe — Multi-agent tutor pipeline for conceptual exploration). -* GitHub Link for transparency *(e.g., github.com/aishasartaj/socratifyme). -* Activity Status *(e.g., "pushing updates weekly"). -* Tech-stack Chips *(e.g., LangGraph, Bedrock, OpenSearch, Streamlit). -* Purpose: convey active engineering work and sustained iteration.

Top Right — Currently Exploring:

Log of learning/discovery — courses, books, frameworks, or conferences. - Displayed as concise chips with icons (Book,   Course,   Framework, 🎤Conference). - Each includes a one-line goal or takeaway *(e.g., 🎓Deep RL with Hugging Face — understanding policy gradient stability).*

Bottom Right — Build / Study with Aisha LIVE:

Highlights upcoming or recent live sessions. - Shows date/time, session theme, and a "Join / Watch Replay" link. - *(e.g., Next Live: Oct 20 — Fine-tuning LoRA Adapters on Feedback Examples* 💵*).*

Together, these panes form a living snapshot of creation, exploration, and shared learning — a transparent view into both process and progress.

Projects —

Interactive **draggable stack** (mobile: swipe, desktop: click-drag). - Each card: project title, short description, timeline, and tech chips. - Hover reveals: project image, extended blurb, GitHub + "Check it out." - Optional filter: All / ML / Web / Research.

Work Experience —

Flipbook layout with Prev/Next controls and 3-D rotate transitions. - Each page: role, company, outcomes, and takeaway line *(e.g., "Built emotion-aware pipeline with Hume AI").*

Skills —

Grouped for clarity: - **AI / ML** — PyTorch, LangGraph, Hugging Face, RAG - **Data & Cloud** — SQL, AWS, Docker, MLflow - **Development & Tools** — Next.js, Tailwind, Framer Motion, Streamlit

Contact —

Email, social links, and a short friendly form. Tagline: *"Open to collaborations, ideas, or even a quick chat over chai 🌡️."*
After submission → confirmation message.

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4) Accessibility & SEO

- Semantic HTML, ARIA landmarks, and visible focus states.
- WCAG AA color contrast compliance.
- Alt text for all visuals.
- Metadata: description, OpenGraph, Twitter Card, canonical URL.
- Lazy-loaded, responsive images (AVIF/WebP) with defined dimensions.

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5) Security

- HTTPS (auto via Vercel)
- Contact API → input validation, rate limiting, **hCaptcha**
- Environment variables for secrets (Resend, hCaptcha keys)
- Optional Content-Security-Policy headers via `next.config.mjs`

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6) Build & Launch Plan

Development Workflow: 1. `npx create-next-app@latest buildwithaisha` (TypeScript, Tailwind, App Router) 2. Implement sections as React Server Components: - `/app/(home)/Hero.tsx` - `/app/(home)/About.tsx` - `/app/(home)/Now.tsx` - `/app/(home)/Projects.tsx` - `/app/(home)/Experience.tsx` - `/app/(home)/Skills.tsx` - `/app/(home)/Contact.tsx` 3. Global layout in `/app/layout.tsx` (nav + footer). 4. Add `theme.ts` with CSS variables and a JS hook to toggle mode (persisted via localStorage). 5. Use Framer Motion for: - Smooth page transitions - Project card stack animation - Experience flipbook 3-D rotate 6. Optimize with `<Image>` (Next/Image) for responsive lazy images. 7. Add SEO config in `/app/metadata.ts`. 8. Test Lighthouse + Axe for accessibility. 9. Deploy on **Vercel**, attach **buildwithaisha.com**.

7) Maintenance Rhythm

- **Monthly:** Update *Now* (projects + reading + live session).
- **Quarterly:** Add new project cards or work entries.
- **Yearly:** Refresh SEO, rotate API keys, review analytics.

Decision: Use **Next.js** for scalability and long-term maintainability.

The site remains single-page at launch but supports quick expansion to new pages later (writing, live events, etc.).